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MODULAR DEVELOPMENT PHASE MONITORING REPORT THREE

VOLUME 3 OF 3

December 1977 – November 1978

Year-End Report

Gulf Oil Corporation / Standard Oil Company (Indiana)
A General Partnership
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RIO BLANCO OIL SHALE COMPANY
MODULAR DEVELOPMENT PHASE
MONITORING REPORT 3

December 1977 - November 1978

YEAR-END REPORT

Prepared by:
RIO BLANCO OIL SHALE COMPANY
DENVER, COLORADO

March 31, 1979

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WATER QUALITY DATA

WATER QUALITY DATA FOR THE WHITE RIVER, RBOSC MDP AQUATIC MONITORING STUDIES, OCTOBER 1977 - OCTOBER 1978.

Station 29

Parameter [a]	10/77		4/78		6/78		7/78		8/78		10/78	
	A	B	A	B	A	B	A	B	A	B	A	B
Boron (B)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium (Ca)	74	79	72	70	37	37	66	66	69	68	67	72
Chloride (Cl)	46	46	32	32	14	12	39	41	34	35	32	33
Fluoride (F)	0.21	0.19	0.27	0.28	0.14	0.14	0.23	0.24	0.29	0.29	0.21	-
Magnesium (Mg)	31	31	26	27	13	12	19	19	23	23	20	20
Nitrate (N)	<0.2	<0.2	<0.2	<0.2	0.4	0.2	<0.2	<0.2	0.8	<0.2	<0.2	<0.2
Phosphorus, Ortho (P)	<0.01	<0.01	0.01	0.01	0.05	0.07	0.02	0.03	<0.01	<0.01	<0.01	<0.01
Phosphorus, Total (P)	<0.01	0.02	0.02	0.02	0.25	0.17	0.03	0.03	0.02	0.04	<0.01	<0.01
Potassium (K)	2.9	3.0	2.2	2.3	2.0	2.0	2.5	2.4	2.5	2.5	2.3	2.2
Silica (Si)	8.1	8.4	6.4	6.2	5.8	5.7	8.5	8.6	8.7	6.8	6.8	7.1
Sodium (Na)	110	100	61	66	35	30	39	39	48	48	48	47
Solids, Total	625	622	490	475	329	302	432	452	458	462	426	430
Sulfate (S)	63	64	50	52	18	14	39	40	47	46	45	46

[a] Concentration of dissolved fraction in mg/l unless otherwise noted.

WATER QUALITY DATA FOR THE WHITE RIVER, RBOSC MDP AQUATIC MONITORING STUDIES, OCTOBER 1977 - OCTOBER 1978.

Station 27

Parameter [a]	10/77		4/78		6/78		7/78		8/78		10/78	
	A	B	A	B	A	B	A	B	A	B	A	B
Boron (B)	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	
Calcium (Ca)	84	83	72	70	37	37	65	67	69	69	67	67
Chloride (Cl)	43	43	29	29	16	12	25	24	34	33	32	32
Fluoride (F)	0.17	0.17	0.27	0.26	0.18	0.12	0.23	0.23	0.28	0.29	.26	.22
Magnerium (Mg)	28	31	24	24	13	12	20	19	23	26	20	20
Nitrate (N)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phosphorus, Ortho (P)	0.01	<0.01	0.01	0.01	0.06	0.22	0.03	0.03	<0.01	<0.01	<0.01	0.01
Phosphorus, Total (P)	0.02	0.01	0.02	0.02	0.12	0.32	0.04	0.03	<0.01	0.01	<0.01	0.01
Potassium (K)	2.8	2.7	2.1	2.1	2.2	1.9	2.6	2.5	2.4	2.5	2.1	2.2
Silica (Si)	8.3	8.3	6.2	6.4	5.9	5.7	8.4	8.3	6.9	6.7	6.9	6.9
Sodium (Na)	67	66	47	47	42	31	40	39	46	47	47	47
Solids, Total	512	529	441	446	302	279	401	354	447	450	419	413
Sulfate (S)	60	60	48	50	20	17	38	39	46	47	44	45

[a] concentration of dissolved fraction in mg/l unless otherwise noted.

APPENDIX 4-3

RBOSC PERIPHYTON DATA

APPENDIX 4-3.1

PERIPHYTON BIOMASS DATA

OBS	CLIENT	DATE	YEAR	STATION	REP	DWT	ORGWT	PHASE
649	GS	60078	78	13	2	0.2194	0.0315	2
650	GS	60078	78	20	1	0.8180	0.1588	2
651	GS	60078	78	20	2	0.3741	0.0634	2
652	GS	60078	78	21	1	0.5761	0.1150	2
653	GS	60078	78	21	2	0.5085	0.0773	2
654	GS	40078	78	13	1	0.4742	0.0337	2
655	GS	40078	78	13	2	0.4605	0.0359	2
656	GS	40078	78	14	1	1.7029	0.0845	2
657	GS	40078	78	14	2	6.3592	0.2094	2
658	GS	40078	78	20	1	0.5740	0.0865	2
659	GS	40078	78	20	2	0.3953	0.0706	2
660	GS	40078	78	21	1	0.6699	0.1232	2
661	GS	40078	78	21	2	3.1188	0.4775	2
662	GS	40078	78	27	1	1.1358	0.0390	2
663	GS	40078	78	27	2	0.8253	0.0651	2
664	GS	40078	78	29	1	0.8691	0.0540	2
665	GS	40078	78	29	2	0.6333	0.0585	2
666	GS	70078	78	20	1	0.8060	0.1776	2
667	GS	70078	78	20	2	0.6311	0.1518	2
668	GS	70078	78	21	1	1.7342	0.4924	2
669	GS	70078	78	21	2	0.7606	0.1654	2
670	GS	70078	78	27	1	0.9433	0.0697	2
671	GS	70078	78	27	2	0.8872	0.0905	2
672	GS	70078	78	29	1	0.0636	0.0194	2
673	GS	70078	78	29	2	0.0430	0.0171	2
674	GS	80078	78	13	1	0.3054	0.0403	2
675	GS	80078	78	13	2	0.1492	0.0285	2
676	GS	80078	78	14	1	1.0597	0.0735	2
677	GS	80078	78	14	2	3.1213	0.1542	2
678	GS	80078	78	20	1	0.5526	0.1439	2
679	GS	80078	78	20	2	0.4359	0.0723	2
680	GS	80078	78	21	1	0.9885	0.2867	2
681	GS	80078	78	21	2	0.8086	0.2177	2
682	GS	80078	78	27	1	0.8308	0.1833	2
683	GS	80078	78	27	2	0.6277	0.1894	2
684	GS	80078	78	29	1	0.7414	0.1438	2
685	GS	80078	78	29	2	0.2832	0.0421	2
686	GS	100078	78	13	1	0.9389	0.0943	2
687	GS	100078	78	14	1	1.4548	0.0853	2
688	GS	100078	78	20	1	0.6637	0.0682	2
689	GS	100078	78	21	1	7.9217	0.5423	2
690	GS	100078	78	27	1	0.0941	0.0077	2
691	GS	100078	78	29	1	0.2010	0.0229	2
692	GS	100078	78	13	2	2.7746	0.1875	2
693	GS	100078	78	14	2	1.1012	0.0629	2
694	GS	100078	78	20	2	1.7422	0.1413	2
695	GS	100078	78	21	2	2.0189	0.1566	2
696	GS	100078	78	27	2	0.0676	0.0071	2
697	GS	100078	78	29	2	0.0486	0.0082	2
698	GS	70076	76	13	1	0.3946	0.0654	1
699	GS	70076	76	13	2	0.2858	0.0463	1
648	GS	60078	78	13	1	0.1897	0.0274	2
700	GS	70076	76	13	3	1.3330	0.1445	1
701	GS	70076	76	14	1	0.2855	0.0322	1
702	GS	70076	76	20	1	0.3583	0.0521	1

APPENDIX 4-3.2

SIMPLE STATISTICS FOR PERIPHYTON

PHASE=1 SITE=13

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
CYANOPH	29	367.4224138	843.1326183	0.00000000	2924.000000	156.56579669	10655.25000	710872.61	229.472
RCYANOPH	29	12.3865461	0.0093223	12.35700187	12.390399	0.00173110	359.20984	0.00	0.075
CHLOROP	29	36.1120690	136.7662824	0.00000000	607.500000	25.39686107	1047.25000	18705.02	378.727
RCHLOROP	29	0.6240376	0.1200200	0.00000000	0.646415	0.02228715	18.09710	0.01	19.233
CHRYSOP	29	15869.4806897	23974.2902558	44.30000000	110314.600000	4451.91393660	460214.94000	574766593.27	151.072
RCHRYSOP	29	62.9056270	0.3263577	61.62047110	63.043006	0.06060311	1824.26318	0.11	0.519
TOTAL	29	16273.0151724	24160.5669753	44.30000000	110314.600000	4486.50465503	471917.44000	583732996.57	148.470
RTOTAL	29	82.9926468	0.4306858	81.29683552	83.173608	0.07997634	2406.78676	0.19	0.519

PHASE=1 SITE=14

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
CYANOPH	26	59.34615385	218.80839880	0.00000000	1102.0000000	42.91185751	1543.00000	47877.115	368.699
RCYANOPH	26	12.24177580	0.47869732	10.62034214	12.3903992	0.09388027	318.28617	0.229	3.910
CHLOROP	26	5.99230769	15.29410143	0.00000000	54.0000000	2.99942006	155.80000	233.910	255.229
RCHLOROP	26	0.54770791	0.42410822	-1.50830441	0.6464155	0.08317447	14.24041	0.180	77.433
CHRYSOP	26	9252.25346154	7650.46512835	418.50000000	25399.0000000	1500.37965298	240558.59000	58529616.680	82.688
RCHRYSOP	26	63.01394984	0.04463385	62.89293602	63.0410957	0.00875342	1638.36270	0.002	0.071
TOTAL	26	9317.59192308	7716.73821747	418.50000000	25635.0000000	1513.37687508	242257.39000	59548048.717	82.819
RTOTAL	26	83.13544703	0.05878722	82.97561806	83.1711175	0.01152912	2161.52162	0.003	0.071

PHASE=1 SITE=20

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
CYANOPH	30	258.32500000	1011.17514247	0.00000000	5535.0000000	184.61447837	7749.75000	1022475.169	391.435
RCYANOPH	30	12.23843336	0.24016011	11.43729154	12.3903992	0.04384704	367.15300	0.058	1.962
CHLOROP	30	4.08933333	13.74298440	0.00000000	72.0000000	2.50911419	122.68000	188.870	336.069
RCHLOROP	30	0.46937164	0.59258769	-2.58566250	0.6464155	0.10819122	14.08115	0.351	121.092
CHRYSOP	30	4717.95100000	5799.96148040	214.20000000	22477.5000000	1058.92324516	141538.53000	33639553.174	122.934
RCHRYSOP	30	62.99939050	0.05668216	62.74925663	63.0407730	0.01034870	1889.98171	0.003	0.090
TOTAL	30	4980.36533333	6265.01459749	214.20000000	23321.2500000	1143.82993938	149410.96000	39250407.907	125.794
RTOTAL	30	83.11797865	0.07389850	82.78605963	83.1707956	0.01349196	2493.53936	0.005	0.089

PHASE=1 SITE=21

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
CYANOPH	30	205.79166667	410.39899679	0.00000000	1653.7500000	74.92826271	6173.75000	168427.337	199.424
RCYANOPH	30	12.17469598	0.75232095	8.26026611	12.3903992	0.13735438	365.24088	0.566	6.179
CHLOROP	30	31.37733333	115.42117642	0.00000000	599.0000000	21.07292731	941.32000	13322.048	367.849
RCHLOROP	30	0.43214240	0.04217964	0.43094365	0.6464155	0.00770091	18.99427	0.002	6.662
CHRYSOP	30	5646.21700000	8834.03317203	567.00000000	45118.6000000	1612.86641402	169386.51000	78040142.085	156.459
RCHRYSOP	30	63.00857592	0.02988575	62.93238981	63.0421805	0.00545637	1890.25728	0.001	0.047
TOTAL	30	5883.38600000	8869.28581883	567.00000000	45118.6000000	1619.30263731	176501.58000	78664230.936	150.751
RTOTAL	30	83.13193392	0.03810735	83.02767006	83.1725186	0.00695742	2493.95802	0.001	0.046

PHASE=1 SITE=27

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
CYANOPH	30	1435.6083333	1473.66674355	0.00000000	5950.0000000	269.05350590	43074.25000	2171693.671	102.637
RCYANOPH	30	12.2908163	0.32736698	10.62034214	12.3903992	0.05976876	368.72449	0.107	2.664
CHLOROP	30	23.1266667	47.23903948	0.00000000	202.0000000	8.62462917	693.80000	2231.527	204.262
RCHLOROP	30	0.6190932	0.06179393	0.37707559	0.6464155	0.01128198	18.57279	0.004	9.981
CHRYSOP	30	11509.7053333	7241.01225269	3313.06000000	31414.4000000	1322.02191666	345291.16000	52432258.444	62.912
RCHRYSOP	30	63.0256104	0.00493556	63.02454896	63.0415709	0.00090111	1891.06831	0.000	0.008
TOTAL	30	12968.6403333	7074.98888872	3381.06000000	32832.4000000	1291.71033615	389059.21000	50055467.776	54.555
RTOTAL	30	83.1657327	0.00522034	83.14976195	83.1718288	0.00095310	2494.97198	0.000	0.006

PHASE=1 SITE=29

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
CYANOPH	30	2193.5416667	2195.65684745	0.00000000	8976.0000000	400.87026130	65806.25000	4820908.992	100.096
RCYANOPH	30	12.3558524	0.10343768	11.82719921	12.3903992	0.01888505	370.67557	0.011	0.837
CHLOROP	30	11.9666667	27.68478150	0.00000000	119.0000000	5.05452644	359.00000	766.447	231.349
RCHLOROP	30	0.6355542	0.03161853	0.48481160	0.6464155	0.00577273	19.06663	0.001	4.975
CHRYSOP	30	8091.4163333	6126.56462953	1133.00000000	30747.0000000	1118.55254920	242742.49000	37534794.160	75.717
RCHRYSOP	30	63.0302319	0.01237083	62.98793473	63.0415274	0.00225859	1890.90696	0.000	0.020
TOTAL	30	10296.9246667	6731.04440839	1133.00000000	32637.0000000	1228.91495268	308907.74000	45306958.828	65.369
RTOTAL	30	83.1599547	0.01600466	83.10095132	83.1718136	0.00292204	2494.79864	0.000	0.019

PHASE=2 SITE=13

CYANOPH	16	378.93750000	915.95978578	0.00000000	3504.0000000	228.98994645	6063.000000	838982.329	241.718
RCYANOPH	16	12.16847417	0.35871383	11.26399924	12.3903992	0.08967846	194.695587	0.129	2.948
CHLOROP	16	38.31250000	115.75820705	0.00000000	448.0000000	28.93955176	613.000000	13399.962	302.142
RCHLOROP	16	0.63019114	0.04505660	0.48481160	0.6464155	0.01126415	10.083058	0.002	7.150
CHRYSOP	16	5566.13187500	7242.19815242	3.00000000	22288.0000000	1810.54953811	89058.110000	52449434.079	130.112
RCHRYSOP	16	61.61863757	5.22668073	42.02905185	63.0407492	1.30667018	985.898201	27.318	8.482
TOTAL	16	5983.38187500	7969.98388200	14.00000000	25792.0000000	1992.49597050	95734.110000	63520643.079	133.202
RTOTAL	16	82.67604572	1.46176907	77.23333619	83.1711372	0.36544227	1322.816731	2.137	1.768

PHASE=2 SITE=14

CYANOPH	12	1.25000000	4.02548698	0.00000000	14.00000000	1.16205800	15.000000	16.2045	322.039
RCYANOPH	12	11.28411353	3.56267076	0.00000000	12.39039917	1.02845446	135.409362	12.6926	31.572
CHLOROP	12	1.43333333	2.45665454	0.00000000	7.00000000	0.70917508	17.200000	6.0352	171.395
RCHLOROP	12	0.29127168	0.92451526	-2.58566250	0.64641547	0.26688457	3.495260	0.8547	317.407
CHRYSOP	12	1462.96416667	2166.28550668	18.03000000	6497.50000000	625.35276021	17555.570000	4692792.8964	148.075
RCHRYSOP	12	62.27712638	1.06270710	59.54698418	63.03387503	0.30677711	747.325517	1.1293	1.706
TOTAL	12	1465.64750000	2166.63900583	18.03000000	6501.50000000	625.45480663	17587.770000	4694324.5816	147.828
RTOTAL	12	82.16865498	1.40355499	78.56125232	83.16156894	0.40517143	986.023860	1.9700	1.708

PHASE=2 SITE=20

CYANOPH	40	921.12500000	1229.0839864	0.00000000	4144.0000000	194.33524163	36845.00000	1510647.45	133.433
RCYANOPH	40	12.37168472	0.0384238	12.19372617	12.3903992	0.00607533	494.86739	0.00	0.311
CHLOROP	40	4.53000000	13.7933131	0.00000000	77.0000000	2.18091430	181.20000	190.26	304.488
RCHLOROP	40	0.59015097	0.1660895	-0.16160448	0.6464155	0.02626106	23.60604	0.03	28.144
CHRYSOP	40	6680.54450000	13061.8399535	45.00000000	44683.8000000	2065.25823428	267221.78000	170611662.97	195.521
RCHRYSOP	40	62.71928804	0.3835109	61.64260938	63.0421669	0.06063840	2508.77152	0.15	0.611
TOTAL	40	7606.19950000	12660.2062618	108.00000000	44690.4000000	2001.75437173	304247.98000	160280822.59	166.446
RTOTAL	40	83.08716593	0.1379165	82.40422907	83.1725009	0.02180651	3323.48664	0.02	0.166

PHASE=2 SITE=21

CYANOPH	40	1328.50000000	1539.3669361	0.00000000	4598.0000000	243.39528365	53140.00000	2369650.56	115.873
RCYANOPH	40	12.38117600	0.0198826	12.29127597	12.3903992	0.00314371	495.24704	0.00	0.161
CHLOROP	40	11.44750000	33.3604325	0.00000000	177.5000000	5.27474752	457.90000	1112.92	291.421
RCHLOROP	40	0.62433683	0.0886108	0.10773581	0.6464155	0.01401059	24.97347	0.01	14.193
CHRYSOP	40	4232.20000000	10388.9682924	44.00000000	46266.6000000	1642.64011716	169288.00000	107930662.18	245.474
RCHRYSOP	40	62.79141623	0.2733130	61.61076919	63.0422152	0.04321457	2511.65665	0.07	0.435
TOTAL	40	5572.14750000	9980.0273993	108.04000000	46266.6000000	1577.98088463	222885.90000	99600946.89	179.106
RTOTAL	40	83.08287041	0.1560496	82.40451388	83.1725643	0.02467361	3323.31482	0.02	0.188

PHASE=2 SITE=27

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
CYANOPH	16	1405.81250000	2194.53011580	0.00000000	7282.00000000	548.63252895	22493.000000	4815962.429	156.104
RCYANOPH	16	11.99858715	1.54759106	6.19519958	12.39039917	0.38689776	191.977394	2.395	12.898
CHLOROP	16	8.31250000	32.98427656	0.00000000	132.00000000	8.24606914	133.000000	1087.962	396.803
RCHLOROP	16	0.00570844	0.16152687	0.00000000	0.64641547	0.04038172	9.691335	0.026	26.667
CHRYSOP	16	2271.02312500	2840.42567077	24.20000000	8983.10000000	710.10641769	36336.370000	8068017.991	125.073
RCHRYSOP	16	62.74899050	0.64444505	60.43847076	63.03655975	0.16111126	1003.983848	0.415	1.027
TOTAL	16	3685.14812500	3365.10278599	26.20000000	9227.20000000	841.27569650	58962.370000	11323916.760	91.315
RTOTAL	16	82.87984813	0.78467662	79.99976748	83.16534801	0.19616916	1326.077570	0.616	0.947

PHASE=2 SITE=29

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
CYANOPH	16	267.75000000	498.15305546	0.00000000	1547.00000000	124.53826387	4284.000000	248156.4667	186.052
RCYANOPH	16	12.19541482	0.37011318	11.15135925	12.39039917	0.09252829	195.126637	0.1370	3.035
CHLOROP	16	29.00000000	74.47937522	0.00000000	286.00000000	18.61984381	464.000000	5547.1773	256.825
RCHLOROP	16	0.40202231	0.58869996	-1.50830441	0.64641547	0.14717499	6.432357	0.3466	146.435
CHRYSOP	16	1907.18625000	2593.29127627	92.16000000	8672.00000000	648.32281907	30514.980000	6725159.6436	135.975
RCHRYSOP	16	62.83405567	0.23160892	62.35951068	63.03630799	0.05790223	1005.344891	0.0536	0.369
TOTAL	16	2203.93625000	2586.50794586	152.60000000	8672.00000000	646.62698646	35262.980000	6690023.3540	117.359
RTOTAL	16	83.00498586	0.18118480	82.62931350	83.16477091	0.04529620	1328.079774	0.0328	0.218

APPENDIX 4-4

RBOSC BENTHOS DATA

APPENDIX 4-4.1

SIMPLE STATISTICS FOR BENTHOS

PHASE=1 SITE=13

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
PLECOPT	29	391.08965517	540.54518467	0.00000000	2226.3000000	100.37672087	11341.60000	292189.097	138.215
RPLECOPT	29	3.77049317	0.05678051	3.59241618	3.8024991	0.01054388	109.34430	0.003	1.506
DIPTERA	29	3690.14137931	4437.85053815	36.20000000	15638.4000000	824.08815646	107014.10000	19694517.399	120.262
RDIPTERA	29	44.08689542	0.27291509	43.00085258	44.2196401	0.05067906	1278.51997	0.074	0.619
CERATOP	29	73.46551724	160.09719431	0.00000000	832.6000000	29.72930264	2130.50000	25631.112	217.922
RCERATOP	29	4.70827881	0.10339218	4.53112042	4.7960984	0.01919945	136.54009	0.011	2.196
CHIROND	29	2522.79655172	3432.26726123	0.00000000	13430.2000000	637.35602979	73161.10000	11780458.552	136.050
RCHIROND	29	37.71919344	0.53665773	35.84912804	37.9455695	0.09965484	1093.85661	0.288	1.423
SIMULII	29	784.82758621	2220.27559645	0.00000000	10480.4000000	412.29482773	22760.00000	4929623.724	282.900
RSIMULII	29	8.41350885	0.10989446	8.00024566	8.4680966	0.02040689	243.99176	0.012	1.306
RTRICHOP	29	6.85973930	0.13098509	6.53474853	6.9168978	0.02432332	198.93244	0.017	1.909
TRICHOP	29	3.85517241	9.08458609	0.00000000	36.2000000	1.68696529	111.80000	82.530	235.647

PHASE=1 SITE=14

PLECOPT	30	3.5633333	16.4339112	0.00000000	88.8000000	3.00040795	106.90000	270.07	461.195
RPLECOPT	30	3.7940690	0.0388793	3.59241618	3.8024991	0.00709836	113.82207	0.00	1.025
DIPTERA	30	13502.1833333	20014.0156761	162.90000000	79831.2000000	3654.04261735	405065.50000	400560823.48	148.228
RDIPTERA	30	44.1963926	0.0526087	43.95099781	44.2219140	0.00960499	1325.89178	0.00	0.119
CERATOP	30	630.2500000	922.7749458	0.00000000	3294.2000000	168.47488443	18907.50000	851513.60	146.414
RCERATOP	30	4.7662470	0.0389970	4.66360945	4.7960984	0.00711984	142.98741	0.00	0.818
CHIROND	30	12412.6666667	19320.7401831	126.70000000	78321.6000000	3527.46840866	372380.00000	373291001.22	155.653
RCHIROND	30	37.9150296	0.0579750	37.64607801	37.9450851	0.01058474	1137.45089	0.00	0.153
SIMULII	30	153.3966667	403.6873350	0.00000000	1846.2000000	73.70288653	4601.90000	162963.46	263.166
RSIMULII	30	8.3811055	0.1598554	8.00024566	8.4680966	0.02918546	251.43316	0.03	1.907
RTRICHOP	30	6.8798592	0.1036737	6.53474853	6.9168978	0.01892815	206.39577	0.01	1.507
TRICHOP	30	3.8933333	10.9580370	0.00000000	44.4000000	2.00065468	116.80000	120.08	281.456

PHASE=1 SITE=20

PLECOPT	30	0.65666667	3.59671146	0.00000000	19.7000000	0.65666667	19.7000000	12.9363	547.723
RPLECOPT	30	3.79606512	0.03524052	3.60947883	3.8024991	0.00643401	113.881954	0.0012	0.928
DIPTERA	30	2852.68666667	3095.31591466	18.10000000	13285.4000000	565.12478302	85580.6000000	9580980.6115	108.505
RDIPTERA	30	44.08247495	0.44273070	41.77923628	44.2191393	0.08083120	1322.474248	0.1960	1.004
CERATOP	30	629.91666667	840.64838362	0.00000000	3095.1000000	153.48069421	18897.500000	706689.7049	133.454
RCERATOP	30	4.75070245	0.06784917	4.53112042	4.7960984	0.01238751	142.521073	0.0046	1.428
CHIROND	30	1218.78666667	1797.95351475	0.00000000	8669.9000000	328.25989912	36563.6000000	3232636.8412	147.520
RCHIROND	30	37.67108353	0.54603719	35.84912804	37.9455695	0.09969230	1130.132506	0.2982	1.449
SIMULII	30	986.27333333	1311.75044014	0.00000000	4072.5000000	239.49176863	29588.200000	1720689.2172	133.001
RSIMULII	30	8.36759379	0.15712152	8.00024566	8.4680966	0.02868633	251.027814	0.0247	1.878
RTRICHOP	30	6.85901771	0.13126464	6.53474853	6.9168978	0.02396553	205.770531	0.0172	1.914
TRICHOP	30	8.50000000	27.21618433	0.00000000	144.8000000	4.96897270	255.000000	740.7207	320.190

PHASE=1 SITE=21

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
PLECOPT	30	1.20666667	4.59211718	0.00000000	18.10000000	0.83840206	36.200000	21.0875	380.562
RPLECOPT	30	3.78849360	0.05329975	3.59241618	3.80249913	0.00973116	113.654808	0.0028	1.407
DIPTERA	30	2505.54000000	2697.74431582	36.20000000	8778.50000000	492.53847205	75166.200000	7277824.3935	107.671
RDIPTERA	30	44.12787188	0.22435246	43.00085258	44.21743035	0.04096097	1323.836156	0.0503	0.508
CERATOP	30	175.16333333	175.92342081	0.00000000	597.30000000	32.11907532	5254.900000	30949.0500	100.434
RCERATOP	30	4.73391238	0.07844859	4.53112042	4.79609838	0.01432269	142.017371	0.0062	1.657
CHIROND	30	1756.74333333	2328.69202576	18.10000000	7366.70000000	425.15905066	52702.300000	5422806.5508	132.557
RCHIROND	30	37.77622386	0.38343179	35.84912804	37.94041858	0.07000475	1133.286716	0.1470	1.015
SIMULII	30	547.53000000	615.51128909	0.00000000	2081.50000000	112.37647248	16425.900000	378854.1470	112.416
RSIMULII	30	8.38467366	0.14249055	8.00024566	8.46809656	0.02601510	251.540210	0.0203	1.699
RTRICHOP	30	6.87920016	0.10451400	6.53474853	6.91689779	0.01908156	206.376005	0.0109	1.519
TRICHOP	30	3.72666667	10.34137766	0.00000000	39.40000000	1.88806861	111.800000	106.9441	277.497

PHASE=1 SITE=27

PLECOPT	30	35.27333333	53.97301965	0.00000000	234.00000000	9.85408012	1058.200000	2913.08685	153.014
RPLECOPT	30	3.71377906	0.17922055	2.85187435	3.80249913	0.03272105	111.413372	0.03212	4.826
DIPTERA	30	533.13333333	492.92876756	0.00000000	1989.00000000	89.99606841	15994.000000	242978.76989	92.459
RDIPTERA	30	42.12089179	8.15451221	0.00000000	44.22246795	1.48880343	1263.626754	66.49607	19.360
CERATOP	30	2.60000000	8.46636347	0.00000000	39.00000000	1.54573942	78.000000	71.67931	325.629
RCERATOP	30	4.77560224	0.06525997	4.55014462	4.79609838	0.01191479	143.268067	0.00426	1.367
CHIROND	30	486.16000000	445.76828262	0.00000000	1716.00000000	81.38578127	14584.800000	198709.36179	91.692
RCHIROND	30	35.94530142	7.12019792	0.00000000	37.94556954	1.29996434	1078.359042	50.69722	19.808
SIMULII	30	30.59000000	70.32661413	0.00000000	273.00000000	12.83982432	917.700000	4945.83266	229.901
RSIMULII	30	8.13258706	1.54155495	0.00000000	8.46809656	0.28144814	243.977612	2.37639	18.955
RTRICHOP	30	6.49733150	1.37753165	0.00000000	6.91689779	0.25150172	194.919945	1.89759	21.201
TRICHOP	30	147.15333333	214.99867158	0.00000000	916.50000000	39.25320742	4414.600000	46224.42878	146.105

PHASE=1 SITE=29

PLECOPT	29	170.17931034	279.15192533	0.00000000	1267.50000000	51.83721118	4935.200000	77925.7974	164.034
RPLECOPT	29	3.66150201	0.29231093	2.53499942	3.80249913	0.05428078	106.183558	0.0854	7.983
DIPTERA	29	734.75172414	830.71260529	0.00000000	3471.00000000	154.25945817	21307.800000	690083.4326	113.060
RDIPTERA	29	42.66309694	4.81328492	22.11123397	44.22246795	0.89380457	1237.229811	23.1677	11.282
CERATOP	29	14.81379310	21.28689611	0.00000000	78.00000000	3.95287737	429.600000	453.1319	143.696
RCERATOP	29	4.71212266	0.10779994	4.55014462	4.79609838	0.02001795	136.651557	0.0116	2.288
CHIROND	29	494.78965517	591.35947271	0.00000000	2184.00000000	109.81269727	14348.900000	349706.0260	119.517
RCHIROND	29	36.17853285	7.10193731	0.00000000	37.94556954	1.31879665	1049.177453	50.4375	19.630
SIMULII	29	192.13793103	489.89790147	0.00000000	2554.50000000	90.97175649	5572.000000	239999.9539	254.972
RSIMULII	29	7.98459309	1.62382963	0.00000000	8.46809656	0.30153759	231.553200	2.6368	20.337
RTRICHOP	29	6.61944060	0.88206693	3.45844890	6.91689779	0.16379572	191.963777	0.7780	13.325
TRICHOP	29	910.15517241	1412.77478404	0.00000000	5421.00000000	262.34569129	26394.500000	1995932.5904	155.224

PHASE=2 SITE=13

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
PLECOPT	3	54.30000000	94.05035885	0.00000000	162.90000000	54.30000000	162.90000000	8845.4700000	173.205
RPLECOPT	3	3.79471828	0.01347682	3.77915658	3.80249913	0.00778085	11.38415484	0.0001816	0.355
DIPTERA	3	60.33333333	89.28517981	0.00000000	162.90000000	51.54882260	181.00000000	7971.8433333	147.986
RDIPTERA	3	43.31756735	1.33913064	41.77923628	44.22246795	0.77314743	129.95270204	1.7932709	3.091
CERATOP	3	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.0000000	.
RCERATOP	3	4.79609838	0.00000000	4.79609838	4.79609838	0.00000000	14.38829515	0.0000000	0.000
CHIROND	3	54.30000000	78.89607088	0.00000000	144.80000000	45.55066776	162.90000000	6224.5900000	145.297
RCHIROND	3	37.15940396	1.14227207	35.84912804	37.94556954	0.65949109	111.47821189	1.3047855	3.074
SIMULII	3	6.03333333	10.45003987	0.00000000	18.10000000	6.03333333	18.10000000	109.2033333	173.205
RSIMULII	3	8.31214626	0.27011385	8.00024566	8.46809656	0.15595030	24.93643878	0.0729615	3.250
RTRICHOP	3	6.91689779	0.00000011	6.91689779	6.91689779	0.00000006	20.75069338	0.0000000	0.000
TRICHOP	3	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.0000000	.

PHASE=2 SITE=14

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
PLECOPT	15	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.000000	0.0000	.
RPLECOPT	15	3.80249913	0.00000011	3.80249913	3.80249913	0.00000003	57.037487	0.0000	0.000
DIPTERA	15	1909.11333333	1930.12893014	0.00000000	6353.10000000	498.35714683	28636.700000	3725397.6870	101.101
RDIPTERA	15	44.16364091	0.07135988	43.97048807	44.22246795	0.01842504	662.454614	0.0051	0.162
CERATOP	15	26.18000000	43.06188570	0.00000000	144.80000000	11.11853108	392.700000	1854.3260	164.484
RCERATOP	15	4.72458530	0.10419751	4.53112042	4.79609838	0.02690368	70.868780	0.0109	2.205
CHIROND	15	1342.80666667	1604.70951954	0.00000000	6280.70000000	414.33421631	20142.100000	2575092.6421	119.504
RCHIROND	15	37.88171153	0.07694083	37.70232871	37.94556954	0.01986604	568.225673	0.0059	0.203
SIMULII	15	506.98666667	974.54649883	0.00000000	3258.00000000	251.62682400	7604.800000	949740.8784	192.223
RSIMULII	15	8.45220829	0.05573277	8.25096588	8.46809656	0.01439014	126.783124	0.0031	0.659
RTRICHOP	15	6.89325028	0.09158643	6.56218509	6.91689779	0.02364751	103.398754	0.0084	1.329
TRICHOP	15	1.30000000	5.03487835	0.00000000	19.50000000	1.30000000	19.500000	25.3500	387.298

PHASE=2 SITE=20

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
PLECOPT	15	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.000000	0.0000	.
RPLECOPT	15	3.80249913	0.00000011	3.80249913	3.80249913	0.00000003	57.037487	0.0000	0.000
DIPTERA	15	3522.26000000	2253.89700386	796.40000000	8380.30000000	581.95370400	52833.900000	5080051.7040	63.990
RDIPTERA	15	44.20414288	0.01287096	44.16693997	44.21719099	0.00332327	663.062143	0.0002	0.029
CERATOP	15	999.12000000	886.24541441	0.00000000	3402.80000000	228.82758205	14986.800000	785430.9346	88.703
RCERATOP	15	4.77403580	0.06731858	4.53112042	4.79609838	0.01738158	71.610537	0.0045	1.410
CHIROND	15	1775.00666667	1228.90615501	271.50000000	4941.30000000	317.30220483	26625.100000	1510210.3378	69.234
RCHIROND	15	37.91029020	0.03355473	37.80580672	37.93789027	0.00866379	568.654353	0.0011	0.089
SIMULII	15	734.86000000	963.53026848	0.00000000	3547.60000000	248.78244556	11022.900000	928390.5783	131.118
RSIMULII	15	8.40520793	0.08258524	8.23417120	8.46809656	0.02132342	126.078119	0.0068	0.983
RTRICHOP	15	6.81499133	0.15931982	6.53474853	6.91689779	0.04113620	102.224870	0.0254	2.338
TRICHOP	15	8.44666667	13.45234269	0.00000000	36.20000000	3.47337995	126.700000	180.9655	159.262

PHASE=2 SITE=21

VARIABLE	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM	VARIANCE	C.V.
PLECOPT	15	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.000000	0.0000	.
RPLECOPT	15	3.80249913	0.00000011	3.80249913	3.80249913	0.00000003	57.037487	0.0000	0.000
DIPTERA	15	4155.76000000	2219.02288014	543.00000000	8000.20000000	572.94924397	62336.400000	4924062.5426	53.396
RDIPTERA	15	44.20438752	0.01952456	44.14102686	44.21694028	0.00504122	663.065813	0.0004	0.044
CERATOP	15	442.84666667	410.40480168	0.00000000	1248.90000000	105.96606414	6642.700000	168432.1012	92.674
RCERATOP	15	4.76530407	0.07272354	4.53112042	4.79609838	0.01877714	71.479561	0.0053	1.526
CHIROND	15	2296.28666667	1491.00919460	506.80000000	4850.80000000	384.97691865	34444.300000	2223108.4184	64.931
RCHIROND	15	37.91996873	0.01839993	37.87069662	37.93774700	0.00475084	568.799531	0.0003	0.049
SIMULII	15	1397.32000000	1672.83005037	36.20000000	5411.90000000	431.92286174	20959.800000	2798360.3774	119.717
RSIMULII	15	8.41759986	0.08025043	8.23417120	8.46653184	0.02072057	126.263998	0.0064	0.953
RTRICHOP	15	6.89970107	0.03193210	6.82136050	6.91689779	0.00824483	103.495516	0.0010	0.463
TRICHOP	15	32.58000000	60.49687359	0.00000000	181.00000000	15.62022559	488.700000	3659.8717	185.687

PHASE=2 SITE=27

PLECOPT	12	21.12500000	38.51689417	0.00000000	117.00000000	11.11886961	253.5000000	1483.551136	182.328
RPLECOPT	12	3.77135330	0.05979000	3.60749917	3.80249913	0.01725989	45.2562396	0.003575	1.585
DIPTERA	12	321.75000000	304.42945891	19.50000000	838.50000000	87.88121503	3861.0000000	92677.295455	94.617
RDIPTERA	12	43.74724458	0.65044517	41.95464908	44.16972797	0.18776735	524.9669350	0.423079	1.487
CERATOP	12	11.37500000	24.18219198	0.00000000	78.00000000	6.98079753	136.5000000	584.778409	212.591
RCERATOP	12	4.76023013	0.07625258	4.55014462	4.79609838	0.02201222	57.1227615	0.005814	1.602
CHIROND	12	209.62500000	259.64706159	0.00000000	780.00000000	74.95365045	2515.5000000	67416.596591	123.863
RCHIROND	12	37.55996877	0.54184286	35.99964290	37.94556954	0.15641656	450.7196253	0.293594	1.443
SIMULII	12	81.25000000	158.60048435	0.00000000	565.50000000	45.78401617	975.0000000	25154.113636	195.201
RSIMULII	12	8.26445187	0.20641163	8.03383520	8.46809656	0.05958590	99.1734225	0.042606	2.498
RTRICHOP	12	6.79472701	0.14704145	6.56218509	6.90325500	0.04244721	81.5367241	0.021621	2.164
TRICHOP	12	211.25000000	172.78711284	19.50000000	507.00000000	49.87934306	2535.0000000	29855.386364	81.793

PHASE=2 SITE=29

PLECOPT	12	52.00000000	34.61738922	0.00000000	117.00000000	9.99317949	624.0000000	1198.36364	66.572
RPLECOPT	12	3.71393665	0.06830097	3.60749917	3.80249913	0.01971679	44.5672398	0.00467	1.839
DIPTERA	12	455.00000000	657.36239486	0.00000000	1872.00000000	189.76417782	5460.0000000	432125.31818	144.475
RDIPTERA	12	43.95956317	0.29231963	43.46652832	44.22246795	0.08438541	527.5147580	0.08545	0.665
CERATOP	12	11.37500000	17.55656443	0.00000000	39.00000000	5.06814360	136.5000000	308.23295	154.343
RCERATOP	12	4.74485802	0.08221717	4.55014462	4.79609838	0.02373405	56.9382962	0.00676	1.733
CHIROND	12	74.75000000	83.90701022	0.00000000	292.50000000	24.22186747	897.0000000	7040.38636	112.250
RCHIROND	12	37.45503387	0.55117784	35.99964290	37.94556954	0.15911134	449.4604064	0.30380	1.472
SIMULII	12	365.62500000	625.00327726	0.00000000	1735.50000000	180.42290519	4387.5000000	390629.09659	170.941
RSIMULII	12	8.39764091	0.12498528	8.03383520	8.46809656	0.03608014	100.7716909	0.01562	1.488
RTRICHOP	12	6.83189584	0.12781212	6.56218509	6.91430865	0.03689618	81.9827501	0.01634	1.871
TRICHOP	12	555.75000000	848.01054614	19.50000000	2671.50000000	244.79955854	6669.0000000	719121.88636	152.588

APPENDIX 4-5

AQUATIC BIOTA STATISTICAL CALCULATIONS

APPENDIX 4-5.1

COMPARISON OF MEAN DENSITIES AND DIVERSITY INDICES OF PERIPHYTON SAMPLED DURING RBOSC BASELINE AND MDP STUDIES

APPENDIX 4.5-1(a)

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES AND RBOSP BASELINE STUDIES

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (April 1978) AND RBOSP AQUATIC BASELINE STUDIES (April 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 13		
CHRYSOPHYTA			
Achnanthes lanceolata	288	755	2
A. minutissima	4,481	14,765	94
Bicoeca lacustris		631	162
Fragilaria vaucheriae		190	4
Gomphonema intricatum	98	12,929	9
Meridion circulare		3,240	
Navicula arvensis	69	858	
N. cryptocephala	830	2,081	14
N. pelliculosa		15,230	12
N. sp. 1	9	33	4
N. viridula			4
Nitzschia capitellata		1,008	
N. denticula	45		
N. frustulum	125		
N. holsatica		302	
N. palea		9	30
Surirella ovata		287	
Total cell density	6,334	52,868	403

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (April 1978) AND RBOSP AQUATIC BASELINE STUDIES (April 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 14		
CHRYSOPHYTA			
Achnanthes lanceolata	247	99	14
A. minutissima	4,954	573	48
Bicoeca lacustris		3,471	
Cymbella affinis	199	6	
Gomphonema intricatum	23	180	300
Navicula arvensis	199	177	584
N. cryptocephala	435	339	363
N. pelliculosa	154	957	607
N. sp. 1	56	63	80
N. viridula	168	9	
Nitzschia capitellata		273	1,642
N. denticula	1,688	27	
N. frustulum	1,069	48	431
N. holsatica		66	
N. latens			19
N. palea	171	27	
Total cell density	9,929	6,538	4,176

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (April 1978) AND RBOSP AQUATIC BASELINE STUDIES (April 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 20		
CHRYSOPHYTA			
Achnanthes minutissima	1,337	6	6,226
Cymbella affinis	72	-	-
Fragilaria vaucheriae	108	48	10
Gomphonema intricatum	13	9	-
Navicula arvensis	-	5	67
N. cryptocephala	36	35	41
N. pelliculosa	518	1,334	21,965
N. sp. 1	4	3	61
Nitzschia capitellata	-	190	3
N. frustulum	32	18	1,635
N. holsatica	-	80	-
N. latens	-	23	16
N. microcephala	-	5	355
N. palea	45	84	909
Surirella ovata	243	1,035	52
Synedra amphicephala	9	1,350	2
S. pulchella	4	25	28
Total cell density	2,439	4,287	31,436

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (April 1978) AND RBOSP AQUATIC BASELINE STUDIES (April 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 21		
CHRYSOPHYTA			
Achnanthes minutissima	977	114	807
Cyclotella meneghiniana			24
Cymbella affinis	36		44
Fragilaria vaucheriae	162	118	4
Gomphonema olivaceum	9		
Navicula arvensis	32		20
N. cryptocephala	13	26	49
N. pelliculosa	3,996	547	15,634
N. viridula	4	7	24
Nitzschia capitellata		283	4
N. dissipata	4		
N. frustulum	40	18	851
N. holsatica		136	
N. microcephala			172
N. palea	58	12	1,791
Surirella ovata	266	1,276	219
Synedra amphicephala	9	1,149	
Total cell density	5,645	2,026	19,625

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (April 1978) AND RBOSP AQUATIC BASELINE STUDIES (April 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 27		
CYANOPHYTA			
Calothrix spp.	124	1,020	
CHRYSOPHYTA			
Achnanthes minutissima	202	102	22
Amphora ovalis v. *pediculus*	360	1,632	8
Cymbella affinis	236	57	44
C. ventricosa	168	102	28
Epithemia sorex	911	1,371	
Fragilaria vaucheriae	191	215	
Gomphonema olivaceum	675	634	2,944
Navicula cryptocephala	2,328	1,145	401
N. pelliculosa	79		1,951
N. salinarum v. *intermedia*	236	57	3
N. tripunctata	1,463	816	26
N. viridula	2,014	4,477	402
Nitzschia dissipata	1,957	1,519	258
N. frustulum	168	997	18
Surirella ovata	540	57	18
Total cell density	13,790	14,604	6,155

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (April 1978) AND RBOSP AQUATIC BASELINE STUDIES (April 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 29		
CYANOPHYTA			
Calothrix spp.	979	7	
CHRYSOPHYTA			
Achnanthes minutissima	731	38	22
Amphora ovalis v. *pediculus*	79	874	3
Cymbella affinis	247	22	28
Epithemia sorex	1,192	117	
Gomphonema olivaceum	574	1,115	1,768
Navicula cryptocephala	889	540	545
N. pelliculosa	34	82	1,977
N. tripunctata	292	204	78
N. viridula	1,204	2,737	560
Nitzschia dissipata	1,474	986	590
N. frustulum	101	187	103
N. holsatica		7	36
Surirella ovata	123	243	4
Total cell density	9,294	7,647	5,740

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (June 1978) AND RBOSP AQUATIC BASELINE STUDIES (June 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 13		
CYANOPHYTA			
Lyngbya spp.			
CHRYSOPHYTA			
Achnanthes lanceolata	1	8	
A. minutissima	29	200	178
Bicoeca lacustris		71	90
Fragilaria vaucheriae	3		4
Gomphonema intricatum	6	10	
Navicula cryptocephala	9	34	9
N. pelliculosa	1	15	21
N. viridula	1	2	14
N. sp. 1	3	4	
N. sp. 2	2		
Nitzschia acicularis	2		
N. capitellata			2
N. dissipata			7
N. frustulum	6	6	
N. palea	3		2
Surirella ovata	1		7
Total cell density	71	355	357

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (June 1978) AND RBOSP AQUATIC BASELINE STUDIES (June 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 µm units.)

TAXA	1975	1976	1978
	STATION 14		
CYANOPHYTA			
Merismopedia glauca	1,005		no sample
CHRYSOPHYTA			
Achnanthes minutissima	6,390	4,245	
Bicoeca lacustris		6,570	
Cyclotella meneghiniana		59	
Cymbella affinis	553	37	
Gomphonema intricatum	5	33	
Navicula arvensis	5	51	
N. cryptocephala	279	131	
N. sp. 1	75	24	
N. sp. 2	100	16	
Nitzschia denticula	4,013	157	
N. frustulum	313	22	
Synedra amphicephala	176	20	
S. ulna	255	50	
Total cell density	13,406	11,494	

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (June 1978) AND RBOSP AQUATIC BASELINE STUDIES (June 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 µm units.)

TAXA	1975	1976	1978
	STATION 20		
CYANOPHYTA			
Lyngbya spp.	144	9	9
Calothrix spp.	19	26	1,030
CHLOROPHYTA			
Cladophora sp.			10
CHRYSOPHYTA			
Achnanthes minutissima	5,011	37	106
Bicoeca lacustris		26	
Cyclotella meneghiniana	74	70	20
Cymbella affinis	13		
C. ventricosa	61		
Navicula cryptocephala	13	7	8
N. pelliculosa	22	9	
Nitzschia frustulum	3	414	119
N. latens		14	
N. palea	9		
Surirella ovata	6	12	
Total cell density	5,490	648	1,404

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (June 1978) AND RBOSP AQUATIC BASELINE STUDIES (June 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 21		
CYANOPHYTA			
Lyngbya spp.	108	31	
Calothrix spp.	9		941
Plectonema spp.	596		
CHLOROPHYTA			
Cladophora spp.		273	
Mougeotia spp.			32
CHRYSOPHYTA			
Achnanthes minutissima	2,142	753	50
Cyclotella meneghiniana	86	446	60
Cymbella ventricosa	38		
Navicula arvensis		22	
N. cryptocephala	20	52	13
N. gregaria	13		
N. pelliculosa	12	22	
N. salinarum var *intermedia*			3
Nitzschia frustulum	180	406	42
N. microcephala	43		8
N. palea	135		3
Rhopalodia gibberula			32
Surirella ovata	5	147	1
Synedra pulchella	5	125	108
Total cell density	3,405	2,397	1,328

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (June 1978) AND RBOSP AQUATIC BASELINE STUDIES (June 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 µm units.)

TAXA	1975	1976	1978
	STATION 27		
CYANOPHYTA			
Lyngbya spp.	36	771	
Calothrix spp.		137	
CHRYSOPHYTA			
Achnanthes minutissima	306	181	
Amphora ovalis var *pediculus*	1,914	2,278	
Cyclotella meneghiniana	45	23	
Cymbella affinis	7	57	
C. sinuata	589	125	no sample
C. ventricosa	65	249	
Epithemia sorex		234	
Fragilaria vaucheriae		272	
Gomphonema olivaceum		1,133	
Navicula cryptocephala	121	2,289	
N. pelliculosa	2,090	159	
N. tripunctata	2	567	
N. vaucheriae	252		
N. viridula		476	
Nitzschia dissipata	50	1,802	
N. frustulum	263	1,496	
Total cell density	5,742	13,460	

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (June 1978) AND RBOSP AQUATIC BASELINE STUDIES (June 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 µm units.)

TAXA	197	197	1978
	STATION 29		
CYANOPHYTA			
Lyngbya spp.	36		
Calothrix spp.	36	4,579	
CHRYSOPHYTA			
Achnanthes minutissima	27	408	
Amphora ovalis var pediculus	400	487	
Bicoeca lacustris		669	
Cyclotella meneghiniana	40		
Cymbella sinnata	166	181	
Gomphenema olivaceum	9	782	
Navicula cryptocephala	128	1,122	
N. pelliculosa	61	317	
N. tripunctata	32	295	
Nitzschia dissipata	29	816	
N. frustulum	488	2,312	
Total cell density	1,571	13,160	

no sample

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (July, 1978) AND RBOSP AQUATIC BASELINE STUDIES (July, 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 13		
CYANOPHYTA			
Calothrix spp.		975	2117
CHLOROPHYTA			
Mougeotia spp.			6
CHRYSOPHYTA			
Achnanthes minutissima	835	10,784	86
Bicoeca lacustris		600	
Cyclotella meneghiniana			18
Cymbella affinis	7	4,420	
C. pusilla			13
Fragilaria vaucheriae	80	708	
Gomphonema intricatum	79	805	
Mastogloia elliptica			2
Navicula arvensis	28	402	
N. cryptocephala	192	3,162	2
N. pelliculosa	172	68	
N. viridula	8	538	
Nitzschia capitellata	70	1,377	
N. frustulum	43	362	61
N. holsatica	57	28	
N. latens		187	5
N. microcephala	2	45	22
N. palea	55		
Surirella ovata	11	958	
Total cell density	1,689	26,875	2,329

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (July, 1978) AND RBOSP AQUATIC BASELINE STUDIES (July, 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
STATION 14			
CYANOPHYTA			
Plectonema spp.	1,102		
CHRYSOPHYTA			
Achnanthes minutissima	8,160	1,547	
Cymbella affinis	1,481		
C. microcephala	108	14	
Cyclotella meneghiniana	7	21	
Fragilaria vaucheriae	108		
Navicula cryptocephala	315	175	
N. tripunctata		35	
N. sp. 1	139		
Nitzschia acicularis	180		
N. capitellata	2	21	
N. denticula	2,124	112	
N. frustulum	73	329	
N. holsatica	729		
Rhopalodia gibba		49	
R. gibberula		63	
Synedra famelica	360		
S. minuscula	658		
S. ulna	495	7	
Total cell density	16,171	2,464	

no sample

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (July, 1978) AND RBOSP AQUATIC BASELINE STUDIES (July, 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 20		
CYANOPHYTA			
Calothrix spp.	2	177	2117
CHLOROPHYTA			
Cladophora spp.	2	25	
Mougeotia spp.			6
CHRYSOPHYTA			
Achnanthes minutissima	84	36	86
Cyclotella meneghiniana	24	162	18
Cymbella pusilla		21	13
C. ventricosa	24	3	
Gomphonema olivaceum	25		
Mastogloia elliptica		71	2
Navicula cryptocephala	111	36	2
N. pelliculosa	122		
N. viridula	35	99	
Nitzschia fonticola	128	9	
N. frustulum	64	747	61
N. holsatica	32	111	
N. latens		38	5
N. microcephala	3	15	22
Total cell density	832	1,443	2,328

ABLE COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (July, 1978) AND RBOSP AQUATIC BASELINE STUDIES (July, 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 µm units.)

TAXA	1975	1976	1978
	STATION 21		
CYANOPHYTA			
Calothrix spp.	48	131	3433
Lyngbya spp.	456		
CHLOROPHYTA			
Cladophora spp.		32	4
Mougeotia spp.			20
CHRYSOPHYTA			
Achnanthes minutissima	281	37	46
Amphora ovalis v. pediculus	192	2	1
Cyclotella meneghiniana	19	157	45
Cymbella pusilla		25	2
Gomphonema olivaceum	97		
Mastogloia elliptica		78	3
Navicula cryptocephala	158	145	10
Nitzschia fonticola	291		
N. frustulum	100	789	120
N. holsatica	51	12	
N. latens		14	1
N. microcephala	37	8	50
N. palea	59		2
Rhopalodia gibberula		25	13
Synedra pulchella		7	4
S. ulna	142	5	
Total cell density	2,259	1,520	3,764

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (July, 1978) AND RBOSP AQUATIC BASELINE STUDIES (July, 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 µm units.)

TAXA	1975	1976	1978
	STATION 27		
CYANOPHYTA			
Calothrix spp.	30	3241	2,994
Lyngbya spp.	2,208		1,385
CHRYSOPHYTA			
Achnanthes minutissima	30	45	180
Amphora ovalis v. pediculus	365	5,269	569
Bicoeca lacustris	233		
Cocconeis pediculus		63	
Cymbella affinis	52		114
C. sinuata	45	87	146
Diatoma vulgare	270		
Epithemia sorex	60	742	297
Gomphonema olivaceum	217	19	58
Navicula cryptocephala	907	373	111
N. salinarium v. intermedia	89	15	106
N. tripunctata	217	219	31
Nitzschia chasei	142	98	
N. dissipata	232	94	160
N. frustulum	157	117	195
N. holsatica	352		50
Synedra ulna	502	0	8
Total cell density	6,577	10,610	6,622

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (July, 1978) AND RBOSP AQUATIC BASELINE STUDIES (July, 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 29		
CYANOPHYTA			
Calothrix spp.	52	2,709	58
Lyngbya spp.	5,160	-	80
CHLOROPHYTA			
Cladophora spp.	1	33	26
CHRYSOPHYTA			
Achnanthes minutissima	135	45	6
Amphora ovalis v. *pediculus*	2,129	306	6
Bicoeca lacustris	120		18
Cocconeis pediculus		329	1
C. placentula		91	22
Cymbella sinuata	307	170	8
Epithemia sorex	127	5,315	3
Fragilaria vaucheriae	143	11	
Gomphonema intricatum	82	283	
G. olivaceum	420	34	17
N. cryptocephala	398	328	2
N. tripunctata	22	79	
Nitzschia dissipata	306	11	3
N. frustulum	135	79	22
N. holsatica	239		1
Total cell density	10,919	3,328	289

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (August 1978) AND RBOSP AQUATIC BASELINE STUDIES (August 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 13		
CYANOPHYTA			
Lyngbya spp.	980		905
Calothrix spp.			50
CHLOROPHYTA			
Cladophora spp.			112
CHRYSOPHYTA			
Achnanthes lanceolata	203	57	
A. minutissima	2,775	2,002	3,310
Amphora ovalis v. pediculus		47	
Bicoeca lacustris	652	78	2,188
Cymbella affinis	220	13	
C. microcephala		17	8
Fragilaria vaucheriae	98		
Gomphonema intricatum	614	27	40
Navicula cryptocephala	197	63	91
N. pelliculosa	199	15	4,297
N. sp. 1		2	60
Nitzschia capitellata		5	49
N. denticula	63	5	
N. frustulum	22	14	18
N. latens		1	77
Total cell density	6,171	2,447	11,313

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (August 1978) AND RBOSP AQUATIC BASELINE STUDIES (August 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 µm units.)

TAXA	1975	1976	1978
	STATION 14		
CYANOPHYTA			
Lyngbya spp.	30		
CHRYSOPHYTA			
Achnanthes lanceolata	20	56	
A. minutissima	3,191	686	35
Amphora ovalis v. *pediculus*		70	
Cocconeis placentula		35	1
Cyclotella meneghiniana	211		
Cymbella affinis	4,140	21	
C. microcephala	226		
C. ventricosa	208	7	1
Navicula cryptocephala	165	203	5
N. pelliculosa	14	28	4
Nitzschia capitellata			1
N. denticula	1,969	21	1
N. frustulum	27	203	2
N. holsatica		811	
N. palea	14	91	1
Rhoicosphenia curvata		42	
Rhopalodia gibberula		119	
Synedra amphicephala	45		1
Total Cell Density	10,467	1,822	51

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (August 1978) AND RBOSP AQUATIC BASELINE STUDIES (August 1975 and 197). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 µm units.)

TAXA	1975	1976	1978
	STATION 20		
CYANOPHYTA			
Lyngbya spp.	9		
Calothrix spp.			2,117
CHLOROPHYTA			
Cladophora spp.	3		
Mougeotia spp.			6
CHRYSOPHYTA			
Achnanthes minutissima	1,132	123	86
Cyclotella meneghiniana	4	78	18
Cymbella pusilla			13
C. ventricosa	28		
C. sp. 1		82	
Mastogloia elliptica		157	2
Navicula cryptocehala	12	250	2
Nitzschia capitellata		93	
N. fonticola	20		
N. frustulum	24	3,196	61
N. holsatica		310	
N. microcephala			22
N. palea	42		
N. latens		142	5
Synedra pulchella		63	2
Total cell density	1,309	4,780	2,335

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (August 1978) AND RBOSP AQUATIC BASELINE STUDIES (August 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1975	1976	1978
	STATION 21		
CYANOPHYTA			
Lyngbya spp.	17		5
Calothrix spp.	10	15	2,263
CHRYSOPHYTA			
Achnanthes minutissima	653	101	7
Cyclotella meneghiniana	20	41	14
Cymbella pusilla			52
C. ventricosa	15		52
Gomphonema intricatum	39		
Gyrosigma acuminatum			14
Navicula cryptocephala		238	9
N. pelliculosa		26	1
N. sp. 2		57	
N. viridula	16		13
Nitzschia capitellata	7	60	
N. frustulum	98	14,004	55
N. holsatica	18	244	4
N. latens	117	619	2
N. microcephala		45	42
Rhoplodia gibberula		4	6
Synedra pulchella	9		
	1,047	15,538	2,497

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (August 1978) AND RBOSP AQUATIC BASELINE STUDIES (August 1975 and 1976). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 µm units.)

TAXA	1975	1976	1978
	STATION 27		
CYANOPHYTA			
Lyngbya spp.	697		49
Calothrix spp.	68	2,692	1,194
CHLOROPHYTA			
Cladophora spp.			33
CHRYSOPHYTA			
Achnanthes minutissima		102	10
Amphora ovalis v. *pediculus*	2,543	425	14
Cocconeis pediculus		589	26
C. placentula	315		16
Diatoma vulgare	765		
Epithemia sorex	3,774	1,796	334
Gomphonema intricatum		255	3
G. ventricosa	1,148		
Navicula cryptocephala	2,183	346	7
N. pelliculosa		181	
N. salinarum v. *intermedia*	1,328		3
Nitzschia chasei	878		
N. dissipata	2,700		
N. frustulum	2,115	108	12
N. holsatica		91	2
Total cell density	22,171	7,107	1,717

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (August 1978) AND RBOSP AQUATIC BASELINE STUDIES (October 1974 and 1975). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1974	1975	1978
	STATION 29		
CYANOPHYTA			
Lyngbya spp.	795	6	30
Calothrix spp.	75	2,083	890
CHLOROPHYTA			
Cladophora spp.		41	90
CHRYSOPHYTA			
Achnanthes minutissima	7	67	69
Amphora ovalis v. *pediculus*	120	33	11
Cocconeis pediculus		707	73
C. placentula	34	115	49
Cyclotella meneghiniana		133	
Cymbella affinis	105	23	6
Epithemia sorex	3,747	2,517	864
Gomphonema olivaceum	79	15	22
G. intricatum		622	
G. ventricosa	94		
Navicula cryptocephala	476	140	28
N. salinarum v. *intermedia*	712	125	6
N. tripunctata	128	214	3
Nitzschia dissipata	739	84	21
N. frustulum	409	172	23
Total cell density	8,071	7,582	2,219

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (October 1978) AND RBOSP AQUATIC BASELINE STUDIES (October 1974 and 1975). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 µm units.)

TAXA	1974	1975	1978
	STATION 13		
CYANOPHYTA			
Lyngbya spp.	956	124	530
Plectonema spp.	518		
CHRYSOPHYTA			
Achnanthes lanceolata	653	1,689	158
A. minutissima	5,378	11,312	3,864
Bicoeca lacustris		3,289	22
Cymbella affinis	67	290	
Gomphonema intricatum	428	1632	669
G. olivaceum	146		
Meridion circulare	281	238	
Navicula arvensis	281	769	
N. cryptocephala	7,223	2,949	862
N. pelliculosa		388	1,521
N. viridula		75	744
Nitzschia acicularis	79	2,110	
N. capitellata		84	490
N. denticula		51	
N. frustulum	158	68	213
N. holsatica		11	
N. linearis	214	25	14
N. palea	281	606	177
Surirella ovata	45	90	508
Total cell density	17,356	26,253	11,288

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (October 1978) AND RBOSP AQUATIC BASELINE STUDIES (October 1974 and 1975). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 µm units.)

TAXA	1974	1975	1978
	STATION 14		
CYANOPHYTA			
Lyngbya spp.			3
CHRYSOPHYTA			
Achnanthes minutissima	641	491	65
A. lanceolata	2	3	
Cyclotella meneghiniana		10	2
Cymbella affinis		54	
C. microcephala		22	
Fragilaria vaucheriae	4	1	5
Gomphonema intricatum			4
Navicula cryptocephala	9	20	5
Nitzschia acicularis		1	
N. frustulum	34		5
N. linearis	2		
N. palea	9	1	9
Synedra amphicephala	11		6
S. minuscula		6	
S. ulna	22		42
Total cell density	850	723	162

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (October 1978) AND RBOSP AQUATIC BASELINE STUDIES (October 1974 and 1975). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1974	1975	1978
STATION 20			
CYANOPHYTA			
Calothrix spp.	2059		
Lyngbya spp.	68		
CHRYSOPHYTA			
Achnanthes minutissima	7,718	7,629	49
Cyclotella meneghiniana	855	60	117
Cymbella affinis	7,830		
C. pusilla	23	330	3
Fragilaria vaucheriae	90		7
Gomphonema affine	45	38	
Navicula cryptocephala	214	131	6
N. pelliculosa		23	
N. sp. 1		30	119
N. viridula		8	74
Nitzschia frustulum	124	356	295
N. holsatica			41
N. latens		27	183
N. microcephala		4	97
N. palea	45	203	33
Surirella ovata			43
Synedra amphicephala	11	15	
S. minuscula		38	
S. pulchella	23	68	
S. ulna	114		
Thalassiosira fluviatilis		4	73
Total cell density	13,996	8,965	1,257

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (October 1978) AND RBOSP AQUATIC BASELINE STUDIES (October 1974 and 1975). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1974	1975	1978
	STATION 21		
CYANOPHYTA			
Calothrix spp.	540		
Lyngbya spp.		63	
CHRYSOPHYTA			
Achnanthes minutissima	5,996	6,464	3
Cyclotella meneghiniana	236	9	36
Cymbella affinis	9,034		
C. pusilla	113	81	1
Gomphonema intricatum	11	71	1
Navicula cryptocephala	45	29	9
N. sp. 1		4	76
N. viridula		8	44
Nitzschia capitellata			14
N. frustulum	68	48	188
N. holsatica			15
N. latens		4	102
N. microcephala			49
N. palea	101	45	8
Synedra amphicephala	34		
S. ulna	79		1
Surirella ovata		5	18
Thalassiosira fluviatilis			36
Total cell density	15,087	6,846	645

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (October 1978) AND RBOSP AQUATIC BASELINE STUDIES (October 1974 and 1975). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 µm units.)

TAXA	1974	1975	1978
	STATION 27		
CYANOPHYTA			
Calothrix spp.	1,103	124	
Lyngbya spp.	596	1,317	
CHRYSOPHYTA			
Achnanthes minutissima	34	169	62
Amphora ovalis v. *pediculus*	23	495	6
Cocconeis pediculus	168	23	16
Cymbella sinuata	11	23	15
Diatoma vulgare	79	79	
Epithemia sorex	5,411	7,594	
Gomphonema intricatum	22	113	24
G. olivaceum	259	79	46
Navicula cryptocephala	259	1,969	
N. pelliculosa			23
N. salinarum v. *intermedia*	315	776	
N. tripunctata	113	787	
Nitzschia chasei		405	
N. dissipata	146	2,025	6
N. frustulum	90	450	6
N. holsatica			8
Surirella ovata		810	
Total cell density	11,062	17,720	245

COMPARISON OF MEAN DENSITIES OF THE MOST ABUNDANT ALGAL SPECIES OBSERVED IN THE PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (October 1978) AND RBOSP AQUATIC BASELINE STUDIES (October 1974 and 1975). (Densities are expressed as cells/mm^2 except data for filamentous taxa which are expressed as the number of 50 μm units.)

TAXA	1974	1975	1978
	STATION 29		
CYANOPHYTA			
Lyngbya spp.	1,170	1,962	13
Oscillatoria spp.	799	96	
CHRYSOPHYTA			
Achnanthes minutissima	956	197	197
Amphora ovalis v. pediculus	11	2043	2
Cocconeis pediculus	90		2
C. placentula			9
Cymbella affinis	371	57	
C. sinuata		338	10
Diatoma vulgare	68	51	
Epithemia sorex	2486	13231	18
Gomphonema intricatum		6	152
G. olivaceum	158	113	24
Navicula cryptocephala	889	807	4
N. pelliculosa			73
N. salinarum v. intermedia	338	452	1
N. tripunctata	102	198	
N. viridula	11	45	
Nitzschia dissipata	371	1,146	8
N. frustulum	382	587	23
N. holsatica	45	34	18
N. palea	113	28	
Total cell density	8,732	21,830	554

COMPARISON OF DIVERSITY INDICES OF PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (APRIL 1978) AND RBOSC AQUATIC BASELINE STUDIES (APRIL 1975 AND 1976)

Station		1975	1976	1978
	Shannon Index	1.57	2.24	2.77
	Evenness	0.40	0.52	0.71
13	Richness	1.61	1.84	2.40
	No. of Species	15	20	14
	Shannon Index	2.41	2.43	2.44
	Evenness	0.56	0.54	0.63
14	Richness	2.10	2.55	1.72
	No. of Species	20	23	15
	Shannon Index	1.74	2.17	1.22
	Evenness	0.46	0.58	0.36
20	Richness	1.58	1.67	0.97
	No. of Species	13	15	11
	Shannon Index	1.47	2.36	0.93
	Evenness	0.42	0.60	0.27
27	Richness	1.31	1.70	1.02
	No. of Species	12	16	11
	Shannon Index	3.25	2.77	2.09
	Evenness	0.69	0.63	0.61
29	Richness	2.78	2.25	1.20
	No. of Species	27	21	11

APPENDIX 4-5.1(b)

COMPARISON OF DIVERSITY INDICES OF PERIPHYTON DURING RBOSC MDP STUDIES (JUNE 1978) AND RBOSC AQUATIC BASELINE STUDIES (JUNE 1975 & 1976)

COMPARISON OF DIVERSITY INDICES OF PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (JUNE 1978 AND RBOSC AQUATIC BASELINE STUDIES (JUNE 1975 AND 1976)

Station		1975	1976	1978
13	Shannon Index	2.55	1.92	1.94
	Evenness	0.76	0.58	0.70
	Richness	2.23	1.68	1.26
	Number of species	10	10	7
14	Shannon Index	2.05	1.36	
	Evenness	0.47	0.34	no Sample
	Richness	2.16	1.64	
	Number of species	21	16	
20	Shannon Index	0.58	1.98	1.47
	Evenness	0.17	0.56	0.46
	Richness	1.31	1.74	1.30
	Number of species	12	12	10
21	Shannon Index	1.57	2.59	1.81
	Evenness	0.44	0.64	0.48
	Richness	1.36	2.13	1.84
	Number of species	12	17	14
27	Shannon Index	2.48	3.32	
	Evenness	0.65	0.74	no sample
	Richness	1.56	2.32	
	Number of species	14	23	
29	Shannon Index	2.80	3.06	
	Evenness	0.67	0.69	no sample
	Richness	2.41	2.17	
	Number of species	19	21	

COMPARISON OF DIVERSITY INDICES OF PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (JULY 1978) AND RBOSC AQUATIC BASELINE STUDIES (JULY 1975 AND 1976).

Station		1975	1976	1978
13	Shannon Index	2.73	2.93	-
	Evenness	0.66	0.67	-
	Richness	2.32	2.05	-
	Number of species	18	21	-
14	Shannon Index	2.32	2.16	-
	Evenness	0.51	0.48	-
	Richness	2.23	2.81	-
	Number of species	23	23	-
20	Shannon Index	3.48	2.70	0.74
	Evenness	0.76	0.64	0.27
	Richness	3.39	2.45	0.84
	Number of species	24	19	7
21	Shannon Index	2.90	2.60	0.58
	Evenness	0.72	0.58	0.19
	Richness	2.05	2.81	0.93
	Number of species	17	23	9
27	Shannon Index	3.44	1.89	2.52
	Evenness	0.73	0.49	0.57
	Richness	2.89	1.53	2.35
	Number of species	26	15	22
29	Shannon Index	2.72	2.05	2.91
	Evenness	0.57	0.52	0.74
	Richness	2.72	1.60	2.68
	Number of species	26	16	16

COMPARISON OF DIVERSITY INDICES OF PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (AUGUST 1978) AND RBOSC AQUATIC BASELINE STUDIES (AUGUST 1975 AND 1976).

Station		1975	1976	1978
13	Shannon Index	1.17	1.37	1.70
	Evenness	0.29	0.33	0.49
	Richness	1.63	2.16	1.20
	Number of species	17	17	12
14	Shannon Index	1.78	3.36	1.79
	Evenness	0.44	0.69	0.63
	Richness	1.54	3.73	1.79
	Number of species	16	29	7
20	Shannon Index	1.04	2.31	0.78
	Evenness	0.29	0.52	0.24
	Richness	1.59	2.41	1.11
	Number of species	12	21	9
21	Shannon Index	2.04	1.97	0.72
	Evenness	0.51	0.54	0.20
	Richness	2.14	1.54	1.43
	Number of species	16	13	12
27	Shannon Index	3.38	2.82	1.37
	Evenness	0.66	0.63	0.42
	Richness	3.18	2.48	1.26
	Number of species	34	23	10
29	Shannon Index	2.44	3.09	2.20
	Evenness	0.51	0.64	0.57
	Richness	2.79	3.09	1.93
	Number of species	27	28	16

COMPARISON OF DIVERSITY INDICES OF PERIPHYTON DURING SAMPLING, RBOSC MDP STUDIES (OCTOBER 1978) AND RBOSC AQUATIC BASELINE STUDIES (OCTOBER 1974 AND 1975).

Station		1974	1975	1978
13	Shannon Index	2.49	2.66	2.77
	Evenness	0.58	0.61	0.67
	Richness	1.90	2.02	1.77
	Number of species	19	21	17
14	Shannon Index	1.37	1.55	2.58
	Evenness	0.45	0.43	0.73
	Richness	1.18	1.70	2.17
	Number of species	9	12	12
20	Shannon Index	1.77	1.28	3.25
	Evenness	0.51	0.34	0.79
	Richness	1.04	1.39	2.38
	Number of species	11	13	18
21	Shannon Index	1.45	0.48	3.12
	Evenness	0.44	0.14	0.78
	Richness	0.93	1.03	2.48
	Number of species	10	10	16
27	Shannon Index	1.82	2.89	2.99
	Evenness	0.44	0.61	0.79
	Richness	1.79	2.59	2.68
	Number of species	18	26	14
29	Shannon Index	2.65	2.17	2.39
	Evenness	0.61	0.47	0.62
	Richness	2.13	2.35	2.30
	Number of species	20	24	15

APPENDIX 4-5.2

MACROINVERTEBRATE TAXA COLLECTED DURING 1978 AND COMPARISON OF THE MOST ABUNDANT BENTHIC MACROINVERTEBRATE TAXA OBSERVED DURING RBOSC AQUATIC MDP STUDIES AND RBOSC BASELINE STUDIES

BENTHIC MACROINVERTEBRATE TAXA COLLECTED AT THE RBOSC MONITORING SITES DURING 1978.

Phylum Nematoda
Phylum Annelida
  Class Haplotaxida
    Family Enchytraeidae
    Family Tubificidae
      Unidentified Tubificidae sp. 1
      Unidentified Tubificidae sp. 2
      Ilyodrilus templetoni (Southern 1909)
      Limnodrilus claparedeianus Ratzel 1868
      Limnodrilus hoffmeisteri Claparede 1862
      Limnodrilus udekemianus Claparede 1862
      Tubifex tubifex (Muller 1774)
      Immatures w/ cap. chaetae
      Immatures w/o cap. chaetae
    Family Naididae
      Nais Muller 1773
Phylum Arthropoda
  Class Arachnoidea
      Acari
  Class Crustacea
  Order Amphipoda
      Hyalella azteca (Saussure 1858)
  Class Insecta
    Order Collembola
    Order Ephemeroptera
      Family Baetidae
        Baetis Leach 1815
        Callibaetis Eaton 1881
        Dactylobaetis Traver and Edmunds 1968
      Family Heptageniidae
        Heptagenia Walsh 1863
        Rhithrogena Eaton 1881
      Family Leptophlebiidae

        Traverella albertana (McDunnough 1931)
        Choroterpes (Eaton 1883)
      Family Ephemerellidae
        Ephemerella Walsh 1862
      Family Tricorythidae
        Tricorythodes Ulmer 1920
      Family Polymitarcidae
        Ephoron Williamson 1802
    Order Odonata
      Family Coenagrionidae
        Agria Rambur 1842

Family Gomphidae
Ophiogomphus severus Hagen 1874
Order Plecoptera
Family Capniidae
Capnia Pictet 1841
Family Perlodidae
Isoperla Banks 1906
Isogenus Newman 1833
Claassenia sabulosa Banks 1900
Order Hemiptera
Family Corixidae
Order Coleoptera
Family Dytiscidae
Agabus Leach 1817
Deronectes Sharp 1882
Family Elmidae
Dubiraphia Sanderson 1954
Order Trichoptera
Family Hydropsychidae
Hydropsyche Pictet 1834
Cheumatopsyche Wallengren 1891
Family Hydroptilidae
Hydroptila Dalman 1819
Family Leptoceridae
Oecetis McLachlan 1877
Family Brachycentridae
Brachycentrus Curtis 1834
Order Lepidoptera
Family Pyralidae
Order Diptera
Family Tipulidae
Ormosia Ronduni 1856
Hexatoma Latretille 1809
Tipula Linnaeus 1758
Family Ceratopogonidae
Family Chironomidae
Subfamily Tanypodinae
Pentaneurini
Ablabesmyia Johannson 1905
Psectrotanypus (*Apsectrotanypus*) Fittkau 1962
Thienemannimyia group Fittkau 1962
Subfamily Diamesinae
Diamesa Meigen
Monodiamesa Kieffer
Odontomesa Pagast 1947

- Subfamily Orthocladiinae
  - *Chaetocladius* Kieffer 1911
  - *Cricotopus* Van Der Wulp 1874
  - *Cricotopus* (*Cricotopus*) Van Der Wulp 1874
  - *Eukifferiella* Thienemann 1926
  - *Orthocladius* Van Der Wulp 1874
  - *Paracladius* Hirvenoja 1973
  - *Parakiefferiella* Thienemann 1936
  - *Paraphaenocladius* Thienemann 1926
  - *Parametriocnemus* Goetghebuer
  - *Thienemanniella* Kieffer 1911
- Subfamily Chironominae
- Tribe Chironomini
  - *Chironomus* Meigen 1803
  - *Cryptochironomus* Kieffer 1918
  - *Microtendipes* Kieffer 1915
  - *Paracladopelma* Harnisch 1923
  - *Paratendipes* Kieffer 1911
  - *Phaenopsectra* Kieffer 1921
  - *Polypedilum* Kieffer 1913
  - *Polypedilum* (*Polypedilum*) Kieffer 1913
  - *Polypedilum* (*Tripodura*) Townes 1945
- Tribe Tanytarsini
  - *Tanytarsus* Van Der Wulp 1874
  - *Cladotanytarsus* Kieffer 1922
  - *Micropsectra* Kieffer 1909
  - *Rheotanytarsus* Bause 1913

Family Simuliidae
- *Simulium* Latreille

Family Stratiomyidae
- *Euparyphus* Gerstaecker
- *Stratiomys* Geoffrey

Family Tabanidae
- *Tabanus* Linnaeus
- *Chrysops* Meigen

Family Empididae

Family Anthomyiidae
- *Limnophora aequifrons* Stein 1897

Family Muscidae

COMPARISON OF MOST ABUNDANT BENTHIC MACROINVERTEBRATE TAXA OBSERVED DURING RBOSC AQUATIC MDP STUDIES AND RBOSC AQUATIC BASELINE STUDIES (Densities are expressed as organisms/M^2)

Station 13

April

	1975	1976	1978
Nematoda	241	24	42
Tubificidae	96	6	144
Naididae	18,094	6	-
Baetidae	443	115	-
Baetis	2,245	24	-
Plecoptera	91	24	-
Holorusia	6	36	-
Ceratopogonidae	416	18	12
Chironomidae larvae	10,800	1,931	66
Chironomidae pupae	-	30	-
Simuliidae	6	-	-
Empididae	60	6	-
Limnophora aequifrons	6	-	-
Limnophora discreta	6	-	-

Station 13

June

	1975	1976	1978
Nematoda	36	-	6
Tubificidae	42	-	18
Naididae	6	-	-
Holorusia	60	-	-
Ceratopogonidae	12	109	6
Chironomidae larvae	12	153	6
Chironomidae pupae	-	-	-
Simuliidae	-	163	6
Empididae	6	-	-

Station 13

July

	1975	1976	1978
Nematoda	-	30	-
Tubificidae	6	12	6
Naididae	24	97	-
Baetidae	54	374	-
Baetis	-	48	-
Plecoptera	-	60	-
Holorusia	6	36	-
Ceratopogonidae	-	72	-
Chironomidae larvae	90	2,746	42
Chironomidae pupae	12	73	-
Simuliidae	-	36	6
Empididae	-	6	-
Limnophora aequifrons	18	72	-
Limnophora discreta	-	36	-

Station 13

August

Taxa	1975	1976	1978
Nematoda	42	48	-
Tubificidae	-	253	6
Naididae	-	682	54
Baetidae	724	3,367	-
Baetis	543	78	6
Plecoptera	935	404	-
Holorusia	404	42	-
Ceratopogonidae	48	12	6
Chironomidae larvae	1,459	2,582	36
Chironomidae pupae	48	115	-
Simuliidae	519	265	-
Simulium	-	6	-
Empididae	-	48	-
Limnophora aequifrons	133	247	-
Limnophora discreta	6	-	-

Station 13

October

Taxa	1974	1975	1978
Nematoda	382	-	-
Tubificidae	204	-	12
Naididae	14,347	66	1,605
Baetidae	5,352	6	12
Baetis	6	60	-
Plecoptera	753	1,478	72
Holorusia	13	284	-
Ceratopogonidae	44	6	-
Chironomidae larvae	38,373	361	138
Chironomidae pupae	-	48	-
Simuliidae	6,135	-	6
Simulium	200	0	0
Empididae	-	48	-
Limnophora aequifrons	552	78	-
Limnophora discreta	119	-	-

Station 14

April

Taxa	1975	1976	1978
Nematoda	252	187	-
Tubificidae	15	229	626
Naididae	3,079	66	295
Baetidae	15	36	-
Callibaetis	1,184	-	-
Plecoptera	-	6	-
Coleoptera	-	18	-
Dytiscidae	-	6	126
Deronectes	-	18	-
Ceratopogonidae	622	163	66
Chironomidae larvae	57,971	14,601	3,278
Chironomidae pupae	1,865	1,930	163
Simuliidae	44	48	-
Limnophora aequifrons	-	24	-

Station 14

June

Taxa	1975	1976	1978
Nematoda	119	458	150
Tubificidae	15	229	916
Naididae	15	12	440
Hyalella azteca	-	-	6
Baetidae	-	24	90
Callibaetis	1,021	-	-
Coleoptera	-	18	-
Dytiscidae	15	85	-
Deronectes	-	181	-
Ceratopogonidae	770	2,492	6
Chironomidae larvae	1,554	2,426	1,090
Chironomidae pupae	15	24	54
Simulidae	-	1,231	2,087
Limnophora aequifrons	-	-	126

Station 14

July

Taxa	1975	1976	1978
Nematoda	385	36	18
Tubificidae	-	368	6,176
Naididae	44	977	84
Baetidae	-	84	144
Callibaetis	30	6	60
Corixidae	15	-	6
Coleoptera	-	127	-
Dytiscidae	193	694	-
Deronectes	59	85	132
Ceratopogonidae	326	1,370	6
Chironomidae larvae	6,674	2,256	1,300
Chironomidae pupae	15	6	30
Simuliidae	15	18	1,122
Limnophora aequifrons	44	6	18

Station 14

August

Taxa	1975	1976	1978
Nematoda	74	6	-
Tubificidae	311	820	3,379
Naididae	133	6	-
Baetidae	1,140	12	-
Callibaetis	533	6	-
Corixidae	-	12	-
Coleoptera	-	-	13
Dytiscidae	401	-	-
Ceratopogonidae	118	241	6
Chironomidae larvae	28,714	434	226
Chironomidae pupae	370	18	-
Simuliidae	15	-	19
Limnophora aequifrons	-	-	32

Station 14

October

Taxa	1974	1975	1978
Nematoda	15	-	6
Tubificidae	-	696	266
Naididae	15	314	26
Hyalella azteca	-	29	13
Baetidae	-	429	6
Callibaetis	2,486	118	-
Plecoptera	-	30	-
Corixidae	89	15	-
Deronectes	-	44	6
Ceratopogonidae	44	118	52
Chironomidae larvae	4,071	1,079	590
Chironomidae pupae	-	59	6
Simuliidae	104	44	-
Limnophora aequifrons	163	-	6

Station 20

April

Taxa	1975	1976	1978
Nematoda	145	253	289
Tubificidae	844	2,341	222
Acari	6	-	175
Collembola	-	6	-
Coenagrionidae	12	-	-
Ceratopogonidae	2,299	73	1,266
Chironomidae larvae	5,569	1,001	3,274
Chironomidae pupae	181	-	48
Simuliidae	1,792	24	1,858
Simulium pupae	66	-	42

Station 20

June

Taxa	1975	1976	1978
Nematoda	60	91	18
Tubificidae	60	30	-
Acari	193	12	72
Deronectes	6	-	18
Ceratopogonidae	211	48	935
Chironomidae larvae	265	573	1,393
Chironomidae pupae	6	103	12
Simuliidae	242	1,478	802
Simulium pupae	36	772	193
Limnophora aequifrons	-	72	-

Station 20

July

Taxa	1975	1976	1978
Nematoda	151	127	30
Tubificidae	977	6	-
Acari	6	114	48
Baetidae	-	18	-
Coenagrionidae	6	42	150
Deronectes	24	133	60
Ceratopogonidae	392	284	579
Chironomidae larvae	54	1,725	950
Chironomidae pupae	-	-	24
Simuliidae	157	1,599	24
Simulium pupae	18	18	30

Station 20

August

Taxa	1975	1976	1978
Nematoda	127	108	36
Tubificidae	84	1,448	-
Acari	-	54	-
Baetidae	36	24	699
Coenagrionidae	-	24	66
Deronectes	91	-	72
Ceratopogonidae	181	1,255	2,207
Chironomidae larvae	42	983	1,228
Chironomidae pupae	-	78	36
Simuliidae	-	3,288	102
Simulium pupae	-	187	12

Station 20

October

Taxa	1974	1975	1978
Nematoda	-	833	6
Tubificidae	63	1,955	42
Acari	25	-	-
Collembola	25	-	-
Baetidae	-	1,152	12
Coenagrionidae	25	36	6
Deronectes	6	6	-
Ceratopogonidae	75	1,478	6
Chironomidae larvae	1,127	397	1,688
Chironomidae pupae	-	12	205
Simuliidae	44	133	609
Simulium pupae	6	-	-
Limnophora aequifrons	19	-	36

Station 21

April

Taxa	1975	1976	1978
Nematoda	66	290	114
Tubificidae	12	271	295
Acari	72	-	144
Baetidae	6	-	-
Deronectes	-	54	-
Ceratopogonidae	392	332	784
Chironomidae larvae	550	754	2,773
Chironomidae pupae	229	-	48
Simuliidae	1,231	6	1,671
Simulium pupae	-	-	60

Station 21

June

Taxa	1975	1976	1978
Nematoda	24	356	162
Tubificidae	12	326	54
Naididae	235	6	-
Acari	990	-	12
Baetidae	6	-	-
Coenagrionidae	-	6	-
Dytiscidae	12	163	-
Deronectes	-	151	-
Ceratopogonidae	278	241	277
Chironomidae larvae	1,796	6,082	1,193
Chironomidae pupae	-	567	78
Simuliidae	1,810	175	597
Simulium pupae	109	103	18
Limnophora aequifrons	-	18	6

Station 21

July

Taxa	1975	1976	1978
Nematoda	18	163	271
Tubificidae	18	694	265
Naididae	18	-	6
Acari	139	6	42
Baetidae	-	79	12
Callibaetis	-	12	84
Coenagrionidae	-	-	18
Dytiscidae	-	30	6
Deronectes	12	531	36
Ceratopogonidae	66	247	730
Chironomidae larvae	253	887	3,886
Chironomidae pupae	-	24	205
Simuliidae	513	103	138
Simulium pupae	109	24	30

Station 21

August

Taxa	1975	1976	1978
Nematoda	6	36	301
Tubificidae	-	2,582	186
Naididae	-	72	-
Acari	12	-	-
Baetidae	-	48	-
Callibaetis	-	6	36
Coenagrionidae	30	12	6
Dytiscidae	-	-	6
Deronectes	127	-	-
Ceratopogonidae	48	12	681
Chironomidae larvae	217	84	1,216
Chironomidae pupae	18	-	30
Simuliidae	42	72	4,030
Simulium pupae	12	-	217

Station 21

October

Taxa	1974	1975	1978
Nematoda	-	6	6
Tubificidae	-	36	114
Naididae	150	-	-
Acari	6	48	-
Baetidae	19	60	12
Callibaetis	-	6	-
Coenagrionidae	-	36	-
Deronectes	-	6	6
Hydropsyche	6	-	-
Ceratopogonidae	94	36	6
Chronomidae larvae	2,084	422	2,002
Chironomidae pupae	-	42	36
Simuliidae	320	790	217
Simulium pupae	-	42	6
Limnophora aequifrons	13	6	24

Station 27

April

Taxa	1975	1976	1978
Tubificidae	470	59	1,123
Naididae	7	-	6
Baetidae	-	65	110
Baetis	20	7	156
Heptagenia	-	-	91
Rhithrogena	-	-	6
Ephemerella	221	1,528	468
Tricorythodes	39	98	1,696
Plecoptera	13	78	64
Hydropsychidae	-	33	65
Cheumatopsyche	-	-	39
Hydropsyche	-	39	110
Hydroptilidae	13	13	19
Limnophila	-	13	-
Chironomidae larvae	503	509	582
Chironomidae pupae	13	46	26
Simuliidae	-	-	13

Station 27

June

Taxa	1975	1976	1978
Tubificidae	Depth too great for quantitative sampling	59	No samples taken
Naididae		20	
Baetidae		722	
Baetis		13	
Dactylobaetis		7	
Heptagenia		7	
Rhithrogena		13	
Ephemerella		312	
Tricorythodes		7	
Plecoptera		13	
Hydropsychidae		14	
Hydropsyche		59	
Hydroptilidae		46	
Chironomidae larvae		1,108	
Chironomidae pupae		118	
Simuliidae		221	

Station 27

July

Taxa	1975	1976	1978
Tubificidae	40	319	45
Naididae	-	59	-
Baetidae	-	1,391	58
Baetis	-	-	6
Dactylobaetis	-	156	26
Heptagenia	-	33	78
Rhithrogena	-	104	13
Traverella albertana	-	182	-
Choroterpes	-	234	45
Ephemerella	-	13	32
Tricorythodes	-	722	175
Plecoptera	-	-	6
Hydropsychidae	-	13	13
Hydropsyche	-	7	6
Hydroptilidae	-	27	-
Chironomidae larvae	21	86	90
Chironomidae pupae	13	7	6
Simuliidae	-	33	77

Station 27

August

Taxa	1975	1976	1978
Tubificidae	78	443	26
Naididae	494	156	-
Baetidae	-	488	949
Baetis	-	-	52
Dactylobaetis	-	46	65
Heptagenia	7	13	13
Rhithrogena	-	241	71
Traverella albertana	-	98	26
Choroterpes	46	52	110
Ephemerella	33	46	-
Tricorythodes	65	254	104
Plecoptera	-	65	-
Hydropsychidae	20	410	286
Hydropsyche	7	33	104
Hydroptilidae	7	13	19
Limnophila	13	26	-
Chironomidae larvae	265	405	122
Chironomidae pupae	65	33	-
Simuliidae	-	46	214

Station 27

October

Taxa	1974	1975	1978
Tubificidae	37	468	52
Naididae	213	176	-
Baetidae	38	384	32
Baetis	25	33	-
Dactylobaetis	-	13	-
Heptagenia	13	117	-
Rhithrogena	13	72	357
Traverella albertana	6	13	-
Choroterpes	6	7	-
Ephemerella	132	540	143
Tricorythodes	169	143	32
Plecoptera	38	143	12
Hydropsychidae	44	98	52
Cheumatopsyche	-	33	26
Hydropsyche	19	325	78
Hydroptilidae	100	52	6
Limnophila	-	46	-
Chironomidae larvae	853	607	6
Chironomidae pupae	-	78	-
Simuliidae	6	-	13

Station 29

April

Taxa	1975	1976	1978
Nematoda	117	20	13
Tubificidae	1,133	612	648
Naididae	469	241	-
Baetidae	26	39	65
Baetis	52	13	195
Rhithrogena	33	260	110
Ephemerella	631	293	110
Plecoptera	-	33	6
Isoperla	91	124	71
Hydropsychidae	33	7	26
Hydropsyche	156	7	45
Cheumatopsyche	-	-	6
Hydroptilidae	7	-	-
Limnophila	-	7	-
Ceratopogonidae	59	13	39
Chironomidae larvae	1,311	39	38
Chironomidae pupae	20	7	-
Simuliidae	13	-	39
Empididae	13	-	-

Station 29

June

Taxa	1975	1976	1978
Tubificidae	Depth too great for quantitative sampling	157	No samples taken
Naididae		39	
Baetidae		1,606	
Baetis		91	
Heptagenia		13	
Rhithrogena		293	
Ephemerella		735	
Isoperla		46	
Hydropsyche		26	
Chironomidae larvae		450	
Chironomidae pupae		39	
Simuliidae		1,144	
Empididae		7	

Station 29

July

Taxa	1975	1976	1978
Nematoda	-	7	-
Tubificidae	1,100	1,087	149
Naididae	-	20	-
Baetidae	-	1,203	533
Baetis	-	13	149
Dactyloabaetis	-	-	6
Heptagenia	-	-	6
Rhithrogena	20	683	169
Traverella albertana	-	1,183	-
Chloroterpes	-	52	58
Ephemerella	-	98	58
Tricorythodes	-	962	52
Plecoptera	-	46	32
Claassenia sabulosa	-	111	-
Hydropsychidae	-	202	84
Hydropsyche	-	91	58
Hydroptilidae	-	65	-
Limnophila	7	46	-
Ceratopogonidae	7	-	6
Chironomidae larvae	26	171	115
Chironomidae pupae	7	20	-
Simuliidae	-	163	1,319
Empididae	-	13	-

Station 29

August

Taxa	1975	1976	1978
Nematoda	39	-	-
Tubificidae	235	299	26
Naididae	436	1,047	-
Baetidae	98	884	949
Baetis	117	488	84
Dactylobaetis	-	-	6
Heptagenia	59	46	19
Rhithrogena	137	1,547	208
Traverella albertana	7	26	156
Choroterpes	65	-	26
Ephemerella	33	1,445	13
Tricorythodes	52	78	104
Plecoptera	7	864	49
Claassenia sabulosa	-	-	6
Hydropsychidae	670	566	1,150
Hydropsyche	559	3,335	533
Cheumatopsyche	-	364	-
Hydroptilidae	33	-	19
Limnophila	26	65	-
Ceratopogonidae	13	33	-
Chironomidae larvae	341	1,536	115
Chironomidae pupae	124	85	26
Simuliidae	267	65	78

Station 29

October

Taxa	1974	1975	1978
Nematoda	119	7	6
Tubificidae	119	241	13
Naididae	308	130	-
Baetidae	345	650	65
Baetis	144	-	-
Dactylobaetis	-	78	-
Heptagenia	6	65	6
Rhithrogena	639	202	637
Traverella albertana	-	182	13
Chorotèrpes	-	85	-
Ephemerella	25	117	188
Tricorythodes	6	423	19
Plecoptera	163	59	52
Isoperla	19	-	-
Claassenia sabulosa	44	26	-
Hydropsychidae	1,090	462	130
Hydropsyche	871	26	143
Hydroptilidae	13	39	-
Limnophila	-	20	-
Ceratopogonidae	13	7	-
Chironomidae larvae	303	262	-
Chironomidae pupae	-	20	-
Simuliidae	187	-	26

COMPARISON OF MACROINVERTEBRATE BIOTIC INDICES FOR OCTOBER 1974, OCTOBER, 1975, AND OCTOBER 1978.

Station	Index	Oct. 1974	Oct. 1975	Oct. 1978
13	Shannon	2.79	2.34	.96
	Evenness	.60	.59	.35
	Richness	2.35	1.88	.93
	No. of Species	24	16	8
14	Shannon	2.33	3.14	1.97
	Evenness	.61	.79	.48
	Richness	1.54	1.88	1.54
	No. of Species	15	16	12
20	Shannon	2.76	2.47	1.41
	Evenness	.74	.65	.48
	Richness	1.85	1.50	.91
	No. of Species	14	14	8
21	Shannon	2.43	2.42	1.52
	Evenness	.71	.62	.48
	Richness	1.41	1.92	1.08
	No. of Species	11	15	9
27	Shannon	3.61	4.04	2.48
	Evenness	.83	.83	.73
	Richness	2.58	3.41	1.39
	No. of Species	20	29	10
29	Shannon	3.41	3.58	2.23
	Evenness	.72	.73	.71
	Richness	3.03	3.06	1.11
	No. of Species	27	30	9

COMPARISON OF MACROINVERTEBRATE BIOTIC INDICES FOR APRIL 1975, APRIL 1976 AND APRIL 1978.

Station	Index	April 1975	April 1976	April 1978
13	Shannon	2.72	2.36	2.47
	Evenness	.61	.58	.92
	Richness	2.03	2.03	1.06
	No. of Species	22	17	7
14	Shannon	2.04	1.81	2.96
	Evenness	.52	.45	.68
	Richness	1.29	1.64	2.42
	No. of Species	15	17	21
20	Shannon	2.74	2.17	2.65
	Evenness	.69	.65	.69
	Richness	1.62	1.20	1.55
	No. of Species	16	10	15
21	Shannon	2.42	2.38	2.75
	Evenness	.65	.81	.71
	Richness	1.35	.98	1.58
	No. of Species	13	8	15
27	Shannon	3.04	2.40	3.35
	Evenness	.79	.57	.69
	Richness	2.02	2.26	3.36
	No. of Species	17	19	29
29	Shannon	3.49	2.94	3.41
	Evenness	.71	.79	.87
	Richness	3.44	1.74	1.98
	No. of Species	30	14	15

COMPARISON OF MACROINVERTEBRATE BIOTIC INDICES FOR JUNE 1975, JUNE 1976 AND JUNE 1978.

Station	Index	June 1975	June 1976	June 1978
13	Shannon	1.97	1.60	1.11
	Evenness	.93	.57	.67
	Richness	.81	.72	.39
	No. of Species	5	5	3
14	Shannon	2.62	2.42	3.14
	Evenness	.73	.59	.70
	Richness	1.33	1.88	2.57
	No. of Species	12	18	23
20	Shannon	2.81	2.45	2.67
	Evenness	.79	.65	.73
	Richness	1.57	1.62	1.44
	No. of Species	12	14	13
21	Shannon	2.97	2.74	2.79
	Evenness	.70	.64	.77
	Richness	2.14	2.04	1.53
	No. of Species	19	19	13
27	Shannon	a	3.28	a
	Evenness	a	.71	a
	Richness	a	2.93	a
	No. of Species	a	24	a
29	Shannon	a	2.69	a
	Evenness	a	.69	a
	Richness	a	1.71	a
	No. of Species	a	15	a

a. Problems due to depth, current velocity, and type of substrata

COMPARISON OF MACROINVERTEBRATE BIOTIC INDICES FOR JULY 1975, JULY 1976 AND JULY 1978.

Station	Index	July 1975	July 1976	July 28, 1978
13	Shannon	2.51	3.65	.86
	Evenness	.90	.78	.67
	Richness	1.10	2.96	.24
	No. of Species	7	25	2
14	Shannon	1.54	3.44	2.77
	Evenness	.41	.75	.61
	Richness	1.45	2.82	2.42
	No. of Species	14	24	23
20	Shannon	1.74	2.74	3.16
	Evenness	.53	.67	.81
	Richness	1.21	1.95	1.86
	No. of Species	10	17	15
21	Shannon	2.65	3.21	3.47
	Evenness	1.52	.77	.74
	Richness	.75	2.19	2.84
	No. of Species	12	18	26
27	Shannon	1.72	2.73	3.15
	Evenness	.97	.66	.86
	Richness	.59	2.09	1.84
	No. of Species	4	18	9
29	Shannon	1.37	3.47	2.58
	Evenness	.53	.73	.66
	Richness	.80	3.02	1.85
	No. of Species	7	27	16

COMPARISON OF MACROINVERTEBRATE BIOTIC INDICES FOR AUGUST 1975, AUGUST 1976, AND AUGUST 1978.

Station	Index	Aug. 1975	Aug. 1976	Aug. 1978
13	Shannon	3.37	3.10	1.86
	Evenness	.76	.66	.90
	Richness	2.40	2.75	.71
	No. of Species	21	26	4
14	Shannon	2.18	2.39	1.61
	Evenness	.52	.73	.48
	Richness	1.65	1.20	1.13
	No. of Species	18	6	10
20	Shannon	2.51	2.19	2.47
	Evenness	.85	.59	.59
	Richness	1.10	1.34	2.02
	No. of Species	8	13	18
21	Shannon	3.03	1.45	2.27
	Evenness	.87	.47	.55
	Richness	1.58	1.01	1.90
	No. of Species	11	9	18
27	Shannon	3.28	3.72	2.93
	Evenness	.78	.81	.72
	Richness	2.41	2.93	2.07
	No. of Species	19	24	17
29	Shannon	3.73	3.67	2.94
	Evenness	.79	.81	.70
	Richness	3.16	2.77	2.24
	No. of Species	26	23	19

APPENDIX 4-5.3

SIMILARITY INDICES FOR PERIPHYTON

BRAY-CURTIS SIMILARITY INDEX

SITE= 01

	110774	042575	061575	071575	083175	100075	110075	060476	071576	082676
110774	1.00									
042575	0.27	1.00								
061575	0.35	0.28	1.00							
071575	0.32	0.32	0.81	1.00						
083175	0.29	0.28	0.34	0.32	1.00					
100075	0.23	0.47	0.29	0.38	0.55	1.00				
110075	0.46	0.44	0.31	0.41	0.63	0.71	1.00			
060476	0.35	0.44	0.39	0.45	0.43	0.62	0.58	1.00		
071576	0.36	0.22	0.34	0.34	0.78	0.60	0.71	0.50	1.00	
082676	0.33	0.29	0.29	0.30	0.33	0.34	0.38	0.48	0.43	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 02

	110774	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00										
042575	0.49	1.00									
061575	0.40	0.65	1.00								
071575	.23	0.41	0.46	1.00							
083175	0.19	0.33	0.38	0.68	1.00						
100075	0.35	0.54	0.46	0.28	0.28	1.00					
110075	0.36	0.66	0.47	0.28	0.27	0.64	1.00				
040076	0.28	0.39	0.43	0.35	0.38	0.79	0.51	1.00			
060476	0.20	0.28	0.32	0.37	0.38	0.67	0.42	0.78	1.00		
071576	0.23	0.32	0.34	0.30	0.33	0.73	0.44	0.86	0.71	1.00	
082676	0.37	0.54	0.52	0.37	0.37	0.58	0.59	0.59	0.52	0.50	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 03

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00											
011575	0.34	1.00										
042575	0.63	0.42	1.00									
061575	0.50	0.36	0.42	1.00								
071575	0.49	0.34	0.69	0.46	1.00							
083175	0.37	0.29	0.50	0.47	0.62	1.00						
100075	0.42	0.29	0.60	0.39	0.57	0.51	1.00					
110075	0.42	0.25	0.66	0.27	0.50	0.45	0.51	1.00				
040076	0.27	0.19	0.38	0.28	0.33	0.48	0.36	0.43	1.00			
060476	0.43	0.28	0.56	0.28	0.49	0.38	0.73	0.45	0.29	1.00		
071576	0.56	0.35	0.40	0.46	0.44	0.32	0.53	0.25	0.22	0.55	1.00	
082676	0.45	0.27	0.34	0.55	0.38	0.34	0.46	0.22	0.20	0.46	0.68	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 04

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00											
011575	0.65	1.00										
042575	0.52	0.64	1.00									
061575	0.31	0.32	0.46	1.00								
071575	0.31	0.29	0.40	0.56	1.00							
083175	0.40	0.35	0.52	0.63	0.59	1.00						
100075	0.13	0.18	0.21	0.30	0.30	0.34	1.00					
110075	0.54	0.52	0.35	0.19	0.18	0.23	0.13	1.00				
040076	0.14	0.13	0.21	0.29	0.31	0.34	0.71	0.07	1.00			
060476	0.31	0.28	0.42	0.61	0.46	0.62	0.62	0.17	0.60	1.00		
071576	0.30	0.32	0.31	0.38	0.42	0.47	0.57	0.17	0.71	0.59	1.00	
082676	0.40	0.38	0.49	0.63	0.62	0.66	0.28	0.23	0.28	0.54	0.50	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 05

	110774	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00										
042575	0.46	1.00									
061575	0.37	0.43	1.00								
071575	0.17	0.23	0.41	1.00							
083175	0.41	0.44	0.57	0.46	1.00						
100075	0.54	0.55	0.44	0.17	0.40	1.00					
110075	0.57	0.52	0.54	0.22	0.51	0.60	1.00				
040076	0.30	0.54	0.30	0.20	0.19	0.32	0.31	1.00			
060476	0.33	0.41	0.49	0.35	0.75	0.36	0.43	0.17	1.00		
071576	0.46	0.44	0.48	0.32	0.39	0.35	0.45	0.50	0.25	1.00	
082676	0.24	0.27	0.48	0.33	0.45	0.24	0.31	0.19	0.41	0.32	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 06

	061575	060476
061575	1.00	
060476	0.55	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 07

	110774	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00										
042575	0.66	1.00									
061575	0.51	0.67	1.00								
071575	0.64	0.69	0.74	1.00							
083175	0.75	0.74	0.58	0.73	1.00						
100075	0.41	0.50	0.35	0.41	0.46	1.00					
110075	0.60	0.64	0.52	0.62	0.66	0.59	1.00				
040076	0.26	0.27	0.37	0.36	0.35	0.12	0.25	1.00			
060476	0.55	0.64	0.53	0.60	0.69	0.47	0.55	0.21	1.00		
071576	0.49	0.52	0.69	0.66	0.59	0.28	0.50	0.43	0.52	1.00	
082676	0.60	0.68	0.53	0.65	0.72	0.52	0.58	0.26	0.71	0.58	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 08

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00											
011575	0.67	1.00										
042575	0.21	0.34	1.00									
061575	0.78	0.57	0.16	1.00								
071575	0.24	0.39	0.35	0.23	1.00							
083175	0.31	0.32	0.19	0.27	0.21	1.00						
100075	0.28	0.43	0.41	0.22	0.40	0.60	1.00					
110075	0.16	0.26	0.48	0.13	0.34	0.19	0.40	1.00				
040076	0.12	0.20	0.47	0.10	0.27	0.36	0.53	0.53	1.00			
060476	0.29	0.44	0.48	0.25	0.51	0.30	0.54	0.62	0.47	1.00		
071576	0.40	0.49	0.23	0.35	0.28	0.76	0.68	0.19	0.36	0.35	1.00	
082676	0.14	0.24	0.38	0.11	0.31	0.49	0.62	0.59	0.69	0.51	0.43	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 09

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00											
011575	0.46	1.00										
042575	0.71	0.41	1.00									
061575	0.41	0.69	0.51	1.00								
071575	0.44	0.56	0.49	0.58	1.00							
083175	0.64	0.45	0.73	0.60	0.54	1.00						
100075	0.52	0.42	0.55	0.46	0.44	0.69	1.00					
110075	0.66	0.40	0.76	0.53	0.47	0.74	0.56	1.00				
040076	0.32	0.37	0.41	0.38	0.39	0.40	0.37	0.36	1.00			
060476	0.32	0.65	0.38	0.69	0.47	0.41	0.31	0.40	0.34	1.00		
071576	0.44	0.60	0.48	0.64	0.58	0.57	0.54	0.52	0.49	0.62	1.00	
082676	0.32	0.33	0.38	0.40	0.39	0.47	0.44	0.53	0.34	0.34	0.48	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 12

	083175	100075
083175	1.00	
100075	0.27	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 13

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676	102177	041278	063078
110774	1.00														
011575	0.49	1.00													
042575	0.45	0.62	1.00												
061575	0.08	0.18	0.20	1.00											
071575	0.34	0.56	0.63	0.24	1.00										
083175	0.33	0.40	0.52	0.12	0.50	1.00									
100075	0.55	0.31	0.36	0.06	0.33	0.45	1.00								
110075	0.57	0.33	0.34	0.06	0.31	0.28	0.68	1.00							
040076	0.48	0.41	0.41	0.06	0.34	0.43	0.59	0.54	1.00						
060476	0.10	0.23	0.26	0.75	0.31	0.16	0.09	0.08	0.08	1.00					
071576	0.43	0.26	0.30	0.05	0.16	0.20	0.44	0.44	0.46	0.05	1.00				
082676	0.24	0.43	0.41	0.28	0.55	0.37	0.28	0.26	0.28	0.37	0.07	1.00			
102177	0.51	0.38	0.47	0.08	0.31	0.46	0.60	0.48	0.55	0.11	0.45	0.19	1.00		
041278	0.13	0.26	0.31	0.57	0.37	0.21	0.13	0.10	0.12	0.59	0.07	0.39	0.17	1.00	
063078	0.15	0.30	0.37	0.40	0.44	0.34	0.19	0.12	0.17	0.51	0.05	0.58	0.19	0.54	1.00
093178	0.21	0.34	0.41	0.15	0.52	0.52	0.31	0.18	0.37	0.20	0.13	0.44	0.42	0.26	0.43
102078	0.36	0.40	0.37	0.06	0.36	0.39	0.47	0.44	0.59	0.09	0.40	0.31	0.45	0.12	0.17

BRAY-CURTIS SIMILARITY INDEX

SITE= 13

	083178	102078
083178	1.00	
102078	0.39	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 14

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	082676	102177	041278	083178	102078
110774	1.00														
011575	0.31	1.00													
042575	0.27	0.45	1.00												
061575	0.43	0.65	0.63	1.00											
071575	0.26	0.34	0.38	0.46	1.00										
083175	0.47	0.45	0.41	0.57	0.43	1.00									
100075	0.87	0.34	0.30	0.45	0.32	0.56	1.00								
110075	0.21	0.33	0.45	0.39	0.41	0.39	0.22	1.00							
040076	0.38	0.22	0.41	0.36	0.31	0.38	0.38	0.37	1.00						
060476	0.60	0.30	0.32	0.44	0.33	0.55	0.65	0.29	0.59	1.00					
082676	0.59	0.31	0.39	0.46	0.33	0.45	0.59	0.29	0.46	0.54	1.00				
102177	0.10	0.18	0.40	0.28	0.32	0.14	0.09	0.49	0.36	0.19	0.26	1.00			
041278	0.11	0.21	0.49	0.35	0.18	0.15	0.10	0.30	0.48	0.18	0.23	0.38	1.00		
083178	0.27	0.09	0.10	0.11	0.05	0.10	0.24	0.04	0.09	0.15	0.16	0.08	0.09	1.00	
102078	0.37	0.15	0.13	0.18	0.08	0.14	0.28	0.06	0.12	0.22	0.20	0.11	0.12	0.70	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 15

	071575	110075	040076	060476
071575	1.00			
110075	0.37	1.00		
040076	0.16	0.17	1.00	
060476	0.17	0.23	0.53	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 17

	071575	040076
071575	1.00	
040076	0.47	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 18

	071575	110075	040076	060476
071575	1.00			
110075	0.27	1.00		
040076	0.31	0.39	1.00	
060476	0.24	0.34	0.34	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 19

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	082676
110774	1.00										
011575	0.20	1.00									
042575	0.29	0.51	1.00								
061575	0.28	0.47	0.65	1.00							
071575	0.27	0.36	0.53	0.52	1.00						
083175	0.27	0.22	0.19	0.24	0.26	1.00					
100075	0.36	0.31	0.40	0.35	0.39	0.31	1.00				
110075	0.28	0.31	0.35	0.30	0.41	0.21	0.65	1.00			
040076	0.21	0.55	0.52	0.47	0.51	0.22	0.40	0.44	1.00		
060476	0.36	0.31	0.36	0.34	0.39	0.46	0.45	0.39	0.39	1.00	
082676	0.35	0.30	0.33	0.32	0.39	0.24	0.61	0.45	0.40	0.45	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 20

	110774	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676	102177	041278	063078	073178
110774	1.00														
042575	0.31	1.00													
061575	0.42	0.50	1.00												
071575	0.25	0.37	0.36	1.00											
083175	0.39	0.51	0.84	0.39	1.00										
100075	0.20	0.18	0.25	0.32	0.22	1.00									
110075	0.40	0.44	0.60	0.32	0.62	0.31	1.00								
040076	0.09	0.44	0.13	0.32	0.13	0.16	0.21	1.00							
060476	0.20	0.17	0.32	0.32	0.24	0.38	0.29	0.15	1.00						
071576	0.22	0.15	0.22	0.33	0.21	0.30	0.45	0.24	0.55	1.00					
082676	0.31	0.17	0.24	0.32	0.22	0.22	0.30	0.21	0.47	0.52	1.00				
102177	0.15	0.13	0.18	0.29	0.20	0.41	0.40	0.14	0.33	0.36	0.18	1.00			
041278	0.23	0.53	0.27	0.26	0.26	0.27	0.30	0.27	0.36	0.29	0.32	0.16	1.00		
063078	0.21	0.16	0.26	0.31	0.25	0.35	0.54	0.12	0.39	0.48	0.26	0.47	0.21	1.00	
073178	0.13	0.14	0.24	0.29	0.23	0.27	0.49	0.11	0.34	0.42	0.20	0.44	0.16	0.77	1.00
083178	0.08	0.11	0.19	0.18	0.20	0.18	0.40	0.10	0.21	0.33	0.11	0.30	0.09	0.73	0.74
102078	0.17	0.16	0.17	0.29	0.16	0.35	0.19	0.20	0.44	0.48	0.43	0.29	0.31	0.25	0.22

BRAY-CURTIS SIMILARITY INDEX

SITE= 20

	083178	102078
083178	1.00	
102078	0.11	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 21

	110774	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676	102177	041278	063078	073178
110774	1.00														
042575	0.26	1.00													
061575	0.26	0.35	1.00												
071575	0.29	0.37	0.43	1.00											
083175	0.31	0.32	0.37	0.52	1.00										
100075	0.31	0.48	0.49	0.57	0.53	1.00									
110075	0.29	0.43	0.46	0.55	0.56	0.54	1.00								
040076	0.12	0.52	0.08	0.14	0.13	0.11	0.21	1.00							
060476	0.30	0.39	0.44	0.35	0.36	0.45	0.43	0.18	1.00						
071576	0.25	0.15	0.30	0.25	0.34	0.20	0.33	0.12	0.44	1.00					
082676	0.18	0.17	0.29	0.31	0.49	0.25	0.51	0.21	0.33	0.54	1.00				
102177	0.14	0.13	0.33	0.27	0.35	0.23	0.38	0.12	0.28	0.45	0.53	1.00			
041278	0.19	0.67	0.44	0.32	0.28	0.38	0.38	0.40	0.49	0.31	0.29	0.30	1.00		
063078	0.16	0.12	0.17	0.21	0.24	0.18	0.17	0.10	0.23	0.38	0.24	0.28	0.11	1.00	
073178	0.15	0.11	0.24	0.23	0.31	0.17	0.24	0.08	0.19	0.42	0.32	0.32	0.18	0.81	1.00
083178	0.10	0.08	0.14	0.19	0.22	0.21	0.14	0.06	0.12	0.29	0.23	0.28	0.12	0.73	0.81
102078	0.11	0.11	0.27	0.20	0.46	0.16	0.38	0.11	0.25	0.38	0.57	0.54	0.26	0.18	0.32

BRAY-CURTIS SIMILARITY INDEX

SITE= 21

	083178	102078
083178	1.00	
102078	0.28	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 22

	110774	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00										
042575	0.50	1.00									
061575	0.57	0.45	1.00								
071575	0.17	0.44	0.17	1.00							
083175	0.46	0.38	0.52	0.19	1.00						
100075	0.59	0.47	0.56	0.19	0.62	1.00					
110075	0.21	0.25	0.23	0.31	0.18	0.25	1.00				
040076	0.07	0.38	0.11	0.32	0.16	0.10	0.14	1.00			
060476	0.20	0.50	0.31	0.39	0.40	0.36	0.20	0.34	1.00		
071576	0.17	0.26	0.37	0.26	0.28	0.30	0.34	0.16	0.30	1.00	
082676	0.16	0.29	0.26	0.39	0.41	0.38	0.30	0.30	0.43	0.49	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 23

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00											
011575	0.70	1.00										
042575	0.48	0.54	1.00									
061575	0.41	0.41	0.48	1.00								
071575	0.45	0.44	0.50	0.51	1.00							
083175	0.59	0.60	0.51	0.52	0.53	1.00						
100075	0.49	0.47	0.45	0.48	0.49	0.69	1.00					
110075	0.42	0.56	0.62	0.40	0.47	0.49	0.56	1.00				
040076	0.41	0.44	0.58	0.50	0.43	0.53	0.47	0.47	1.00			
060476	0.42	0.46	0.58	0.52	0.54	0.46	0.46	0.60	0.62	1.00		
071576	0.42	0.38	0.40	0.65	0.47	0.45	0.44	0.34	0.48	0.41	1.00	
082676	0.42	0.44	0.42	0.58	0.41	0.45	0.45	0.33	0.45	0.37	0.74	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 24

	110774	011575	042575	061575	071575	083175	100075	110075	040076	071576	082676
110774	1.00										
011575	0.59	1.00									
042575	0.41	0.45	1.00								
061575	0.41	0.35	0.58	1.00							
071575	0.33	0.34	0.49	0.54	1.00						
083175	0.46	0.50	0.61	0.63	0.54	1.00					
100075	0.38	0.41	0.52	0.52	0.51	0.63	1.00				
110075	0.41	0.54	0.63	0.52	0.49	0.67	0.64	1.00			
040076	0.37	0.36	0.56	0.60	0.54	0.48	0.49	0.51	1.00		
071576	0.45	0.40	0.42	0.64	0.40	0.57	0.36	0.48	0.46	1.00	
082676	0.46	0.38	0.50	0.64	0.46	0.64	0.54	0.49	0.53	0.65	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 25

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00											
011575	0.53	1.00										
042575	0.54	0.47	1.00									
061575	0.13	0.10	0.15	1.00								
071575	0.32	0.30	0.35	0.30	1.00							
083175	0.50	0.41	0.51	0.13	0.30	1.00						
100075	0.57	0.48	0.56	0.16	0.32	0.47	1.00					
110075	0.47	0.48	0.61	0.11	0.32	0.52	0.64	1.00				
040076	0.43	0.34	0.62	0.17	0.36	0.32	0.49	0.50	1.00			
060476	0.48	0.44	0.64	0.17	0.39	0.47	0.59	0.56	0.70	1.00		
071576	0.40	0.30	0.47	0.26	0.35	0.34	0.39	0.38	0.33	0.37	1.00	
082676	0.45	0.33	0.54	0.16	0.36	0.45	0.54	0.55	0.42	0.43	0.67	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 26

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00											
011575	0.57	1.00										
042575	0.54	0.60	1.00									
061575	0.14	0.12	0.16	1.00								
071575	0.44	0.60	0.57	0.18	1.00							
083175	0.38	0.54	0.51	0.11	0.48	1.00						
100075	0.43	0.55	0.59	0.13	0.55	0.67	1.00					
110075	0.43	0.58	0.56	0.09	0.54	0.64	0.55	1.00				
040076	0.37	0.49	0.64	0.20	0.54	0.50	0.54	0.54	1.00			
060476	0.44	0.44	0.63	0.18	0.52	0.50	0.55	0.58	0.58	1.00		
071576	0.41	0.39	0.51	0.23	0.43	0.30	0.42	0.33	0.49	0.41	1.00	
082676	0.40	0.46	0.53	0.15	0.55	0.37	0.43	0.47	0.53	0.45	0.56	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 27

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676	102177	041278	073178
110774	1.00														
011575	0.53	1.00													
042575	0.43	0.54	1.00												
061575	0.14	0.22	0.24	1.00											
071575	0.42	0.51	0.47	0.32	1.00										
083175	0.45	0.55	0.60	0.20	0.46	1.00									
100075	0.52	0.47	0.58	0.26	0.55	0.57	1.00								
110075	0.39	0.50	0.59	0.27	0.55	0.67	0.63	1.00							
040076	0.37	0.41	0.64	0.31	0.48	0.55	0.57	0.58	1.00						
060476	0.29	0.51	0.58	0.21	0.46	0.45	0.48	0.54	0.52	1.00					
071576	0.41	0.40	0.39	0.26	0.37	0.32	0.42	0.29	0.42	0.38	1.00				
082676	0.40	0.42	0.39	0.27	0.41	0.29	0.41	0.31	0.40	0.37	0.59	1.00			
102177	0.48	0.55	0.53	0.21	0.49	0.50	0.58	0.49	0.56	0.53	0.50	0.60	1.00		
041278	0.23	0.23	0.37	0.33	0.31	0.24	0.22	0.27	0.34	0.44	0.25	0.20	0.28	1.00	
073178	0.50	0.50	0.43	0.39	0.50	0.41	0.51	0.41	0.47	0.35	0.49	0.48	0.45	0.23	1.00
083178	0.24	0.31	0.19	0.06	0.10	0.14	0.20	0.11	0.23	0.16	0.53	0.38	0.29	0.07	0.38
102078	0.10	0.06	0.06	0.10	0.09	0.05	0.06	0.04	0.05	0.06	0.18	0.11	0.08	0.12	0.11

BRAY-CURTIS SIMILARITY INDEX

SITE= 27

	083178	102078
083178	1.00	
102078	0.19	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 28

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00											
011575	0.41	1.00										
042575	0.31	0.33	1.00									
061575	0.37	0.30	0.40	1.00								
071575	0.29	0.33	0.36	0.38	1.00							
083175	0.34	0.35	0.37	0.51	0.56	1.00						
100075	0.42	0.47	0.46	0.45	0.60	0.70	1.00					
110075	0.42	0.42	0.47	0.36	0.49	0.56	0.68	1.00				
040076	0.33	0.23	0.50	0.33	0.49	0.31	0.41	0.39	1.00			
060476	0.38	0.31	0.61	0.45	0.56	0.49	0.57	0.57	0.51	1.00		
071576	0.21	0.32	0.17	0.39	0.14	0.19	0.23	0.13	0.14	0.17	1.00	
082676	0.33	0.37	0.27	0.47	0.28	0.34	0.36	0.28	0.25	0.27	0.62	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 29

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676	102177	041278	073178
110774	1.00														
011575	0.60	1.00													
042575	0.48	0.55	1.00												
061575	0.20	0.22	0.21	1.00											
071575	0.37	0.44	0.42	0.38	1.00										
083175	0.50	0.62	0.48	0.30	0.42	1.00									
100075	0.51	0.63	0.48	0.36	0.52	0.78	1.00								
110075	0.47	0.52	0.47	0.20	0.46	0.53	0.54	1.00							
040076	0.39	0.36	0.43	0.40	0.45	0.41	0.48	0.45	1.00						
060476	0.43	0.44	0.38	0.38	0.44	0.49	0.53	0.44	0.61	1.00					
071576	0.29	0.41	0.41	0.42	0.35	0.43	0.51	0.36	0.40	0.44	1.00				
082676	0.27	0.39	0.40	0.28	0.23	0.40	0.42	0.29	0.25	0.33	0.66	1.00			
102177	0.44	0.50	0.49	0.24	0.36	0.48	0.51	0.47	0.50	0.47	0.46	0.50	1.00		
041278	0.37	0.32	0.29	0.24	0.31	0.34	0.36	0.31	0.64	0.49	0.25	0.17	0.41	1.00	
073178	0.09	0.12	0.11	0.26	0.11	0.14	0.15	0.06	0.08	0.11	0.13	0.15	0.10	0.09	1.00
083178	0.16	0.27	0.32	0.23	0.14	0.30	0.31	0.18	0.14	0.23	0.50	0.56	0.27	0.11	0.32
102078	0.19	0.25	0.15	0.26	0.17	0.13	0.15	0.12	0.18	0.16	0.22	0.26	0.20	0.18	0.28

BRAY-CURTIS SIMILARITY INDEX

SITE= 29

	083178	102078
083178	1.00	
102078	0.19	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 30

	110774	011575	042575	061575	071575	083175	100075	110075	040076	071576	082676
110774	1.00										
011575	0.64	1.00									
042575	0.45	0.48	1.00								
061575	0.24	0.18	0.26	1.00							
071575	0.42	0.46	0.55	0.31	1.00						
083175	0.46	0.49	0.47	0.24	0.41	1.00					
100075	0.51	0.47	0.49	0.32	0.43	0.68	1.00				
110075	0.39	0.55	0.56	0.20	0.48	0.55	0.55	1.00			
040076	0.46	0.44	0.65	0.41	0.56	0.49	0.51	0.44	1.00		
071576	0.43	0.48	0.61	0.36	0.51	0.46	0.52	0.41	0.66	1.00	
082676	0.34	0.36	0.48	0.31	0.52	0.35	0.41	0.37	0.43	0.68	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 31

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00											
011575	0.59	1.00										
042575	0.40	0.47	1.00									
061575	0.08	0.12	0.12	1.00								
071575	0.36	0.37	0.41	0.13	1.00							
083175	0.54	0.52	0.47	0.09	0.36	1.00						
100075	0.53	0.60	0.46	0.10	0.47	0.59	1.00					
110075	0.51	0.51	0.40	0.08	0.43	0.56	0.66	1.00				
040076	0.45	0.45	0.55	0.14	0.47	0.46	0.62	0.51	1.00			
060476	0.44	0.50	0.58	0.12	0.44	0.48	0.59	0.51	0.59	1.00		
071576	0.27	0.35	0.43	0.21	0.37	0.25	0.37	0.26	0.50	0.31	1.00	
082676	0.40	0.41	0.36	0.15	0.36	0.41	0.44	0.39	0.51	0.42	0.51	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 32

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00											
011575	0.54	1.00										
042575	0.56	0.55	1.00									
061575	0.18	0.30	0.30	1.00								
071575	0.39	0.45	0.44	0.40	1.00							
083175	0.48	0.45	0.47	0.42	0.67	1.00						
100075	0.47	0.49	0.48	0.43	0.61	0.63	1.00					
110075	0.55	0.43	0.53	0.33	0.55	0.63	0.56	1.00				
040076	0.42	0.44	0.66	0.54	0.48	0.52	0.57	0.47	1.00			
060476	0.35	0.40	0.48	0.45	0.57	0.58	0.56	0.51	0.57	1.00		
071576	0.42	0.45	0.49	0.55	0.43	0.44	0.51	0.41	0.65	0.44	1.00	
082676	0.40	0.46	0.45	0.47	0.43	0.44	0.55	0.46	0.63	0.40	0.73	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 33

	110774	011575	042575	061575	071575	083175	100075	110075	040076	071576	082676
110774	1.00										
011575	0.57	1.00									
042575	0.41	0.46	1.00								
061575	0.13	0.26	0.42	1.00							
071575	0.29	0.31	0.43	0.47	1.00						
083175	0.36	0.51	0.50	0.43	0.39	1.00					
100075	0.35	0.49	0.44	0.38	0.39	0.58	1.00				
110075	0.52	0.59	0.54	0.30	0.39	0.50	0.38	1.00			
040076	0.27	0.23	0.55	0.33	0.44	0.24	0.31	0.35	1.00		
071576	0.05	0.05	0.07	0.20	0.15	0.07	0.11	0.05	0.16	1.00	
082676	0.34	0.37	0.32	0.40	0.34	0.36	0.48	0.34	0.28	0.13	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 34

	110774	011575	042575	061575	071575	083175	100075	110075	040076	071576	082676
110774	1.00										
011575	0.55	1.00									
042575	0.47	0.50	1.00								
061575	0.24	0.26	0.33	1.00							
071575	0.21	0.37	0.35	0.46	1.00						
083175	0.52	0.61	0.43	0.37	0.44	1.00					
100075	0.40	0.42	0.53	0.45	0.41	0.53	1.00				
110075	0.48	0.57	0.54	0.26	0.34	0.41	0.49	1.00			
040076	0.30	0.39	0.64	0.36	0.40	0.36	0.44	0.48	1.00		
071576	0.30	0.37	0.22	0.32	0.25	0.41	0.36	0.22	0.32	1.00	
082676	0.34	0.36	0.32	0.32	0.31	0.46	0.44	0.34	0.39	0.71	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 35

	110774	011575	042575	061575	071575	083175	100075	110075	040076	060476	071576	082676
110774	1.00											
011575	0.60	1.00										
042575	0.52	0.50	1.00									
061575	0.11	0.07	0.10	1.00								
071575	0.40	0.53	0.56	0.09	1.00							
083175	0.33	0.40	0.35	0.11	0.47	1.00						
100075	0.49	0.56	0.45	0.13	0.51	0.56	1.00					
110075	0.53	0.65	0.67	0.08	0.65	0.54	0.60	1.00				
040076	0.43	0.47	0.60	0.16	0.56	0.42	0.59	0.55	1.00			
060476	0.46	0.58	0.52	0.09	0.70	0.43	0.54	0.64	0.48	1.00		
071576	0.38	0.39	0.40	0.18	0.41	0.31	0.46	0.40	0.49	0.41	1.00	
082676	0.35	0.38	0.28	0.19	0.37	0.30	0.38	0.37	0.35	0.41	0.53	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 80

	061575	071575	083175	100075	040076	060476	071576
061575	1.00						
071575	0.77	1.00					
083175	0.56	0.60	1.00				
100075	0.25	0.28	0.42	1.00			
040076	0.12	0.16	0.18	0.16	1.00		
060476	0.49	0.52	0.51	0.37	0.19	1.00	
071576	0.31	0.33	0.47	0.29	0.16	0.30	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 81

	061575	071575	083175	040076	060476	071576
061575	1.00					
071575	0.29	1.00				
083175	0.45	0.36	1.00			
040076	0.10	0.15	0.21	1.00		
060476	0.44	0.16	0.35	0.33	1.00	
071576	0.21	0.46	0.38	0.13	0.25	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 83

	061575	071575	083175	040076	060476	082676
061575	1.00					
071575	0.18	1.00				
083175	0.14	0.41	1.00			
040076	0.16	0.43	0.35	1.00		
060476	0.26	0.32	0.22	0.27	1.00	
082676	0.35	0.16	0.14	0.12	0.22	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 87

	071575	083175	100075	040076	060476	082676
071575	1.00					
083175	0.32	1.00				
100075	0.43	0.59	1.00			
040076	0.61	0.28	0.45	1.00		
060476	0.44	0.27	0.43	0.48	1.00	
082676	0.19	0.60	0.48	0.17	0.42	1.00

BRAY-CURTIS SIMILARITY INDEX

SITE= 89

	071575	083175	100075	040076	060476	082676
071575	1.00					
083175	0.37	1.00				
100075	0.34	0.69	1.00			
040076	0.44	0.41	0.44	1.00		
060476	0.32	0.20	0.25	0.31	1.00	
082676	0.19	0.10	0.13	0.15	0.54	1.00

APPENDIX 5-1
RBOSC SURFACE WATER DATA

APPENDIX 5-1.1

USGS SURFACE GAGING STATION DATA - SUMMARIES

Summary of Water Quality Data Collected at Box Elder Gulch
near west line Tract C-a, June 1976-October 1978

H20QASA-2 — BOX ELDER GULCH NEAR WEST LINE TRACT C-A — REPORT DATE 01-17-79 — PAGE 11
STATION 09306240

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00010&	TEMPERATURE, WATER DEG. C	5	19.00	0.50	12.50	7.19	20.76	4.24	7.65	12.50	17.35	21.71	24.32
00060	DISCHARGE, STREAM CFS	1	0.18	0.18									
00061*	DISCHARGE, INSTANTANEOUS CFS	5	1.60	0.08	0.33	3.86	1.55	0.07	0.13	0.33	0.82	1.86	3.03
00070	TURBIDITY JTU	1	2.00	2.00									
00080*	COLOR PLATINUM - COBALT UNITS	2	7.00	6.00	6.48	1.12	9.03	4.65	6.02	6.48	6.98	7.45	7.75
00095*	CONDUCTIVITY UMHOS AT 25 DEG C	5	850.00	400.00	677.25	1.40	998.48	459.36	539.23	677.25	850.60	1044.07	1180.20
00300*	DISSOLVED OXYGEN MG-L	2	11.90	7.60	9.51	1.37	24.95	3.62	7.68	9.51	11.78	14.28	16.02
00310	BOD, 5 DAY MG-L	1	1.00	1.00									
00340*	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	2	47.00	6.00	16.79	4.29	1407.51	0.20	6.29	16.79	44.85	108.52	184.06
00400&	PH STANDARD UNITS	4	8.30	6.80	7.50	0.65	8.40	6.60	7.06	7.50	7.94	8.33	8.57
00405*	CARBON DIOXIDE MG-L AS C02	4	58.00	3.00	15.11	3.81	96.79	2.36	6.12	15.11	37.28	83.99	136.53
00410*	ALKALINITY, TOTAL MG-L AS CACO3	5	310.00	110.00	210.16	1.50	336.20	131.37	159.50	210.16	276.91	354.87	411.61
00440*	BICARBONATE ION MG-L AS HCO3	5	380.00	140.00	258.23	1.48	405.68	164.37	198.08	258.23	336.65	427.31	492.80
00445*	CARBONATE ION MG-L AS CO3	4	1.00	1.00	1.00	1.00							
00550*	OIL-GREASE, TOTAL MG-L	2	11.00	1.00	3.32	5.45	577.10	0.02	1.06	3.32	10.42	29.16	53.96
00607*	DISSOLVED ORGANIC NITROGEN MG-L AS N	2	0.33	0.28	0.30	1.12	0.43	0.21	0.28	0.30	0.33	0.35	0.37
00608*	NITROGEN, AMMONIA, DISSOLVED MG-L AS N	2	0.01	0.01	0.01	1.00							

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00623* DISS KJELDAHL NITROGEN MG-L AS N	2	0.34	0.28	0.31	1.15	0.47	0.20	0.28	0.31	0.34	0.37	0.39
00631* NITROGEN, NO2 NO3, DISS MG-L AS N	3	2.30	0.31	1.02	2.87	7.11	0.15	0.50	1.02	2.09	3.96	5.81
00650* PHOSPHATE, TOTAL MG-L AS PO4	2	0.86	0.03	0.16	10.73	219.46	0.00	0.03	0.16	0.80	3.36	7.96
00660* PHOSPHATE, DISSOLVED ORTHO MG-L AS PO4	2	0.03	0.01	0.02	2.17	0.18	0.00	0.01	0.02	0.03	0.05	0.06
00665* PHOSPHORUS, TOTAL MG-L AS P	3	8.00	0.01	0.28	28.28	130.85	0.00	0.03	0.28	2.69	20.46	68.85
00671* ORTHOPHOSPHATE, DISS MG-L AS P	2	0.01	0.01	0.01	1.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
00681* CARBON, ORGANIC, DISS MG-L AS C	5	116.00	6.80	20.00	3.34	79.92	5.00	8.87	20.00	45.10	93.72	145.13
00689 CARBON, ORGANIC, SUSP MG-L AS C	1	2.70	2.70									
00720* CYANIDE MG-L AS CN	2	0.01	0.01	0.01	1.00							
00746 SULFIDE, DISSOLVED MG-L AS S	1	1.10	1.10									
00900* HARDNESS, TOTAL MG-L AS CACO3	5	390.00	150.00	275.71	1.49	435.48	174.55	210.81	275.71	360.57	458.98	530.24
00902* HARDNESS AS CACO3 NONCARBONATE MG-L	5	97.00	34.00	63.22	1.60	108.70	36.77	45.99	63.22	86.90	115.69	137.28
00915* CALCIUM, DISSOLVED MG-L AS CA	5	72.00	40.00	54.84	1.26	71.47	42.08	46.94	54.84	64.07	73.68	80.11
00925* MAGNESIUM, DISSOLVED MG-L AS MG	5	51.00	12.00	32.32	1.89	67.25	15.53	21.02	32.32	49.69	73.17	92.21
00930* SODIUM, DISSOLVED MG-L AS NA	5	61.00	25.00	46.34	1.44	70.73	30.37	36.16	46.34	59.40	74.25	84.86
00931* SODIUM ADSORPTION RATIO	5	1.40	0.90	1.22	1.20	1.51	0.99	1.08	1.22	1.39	1.55	1.66
00932* SODIUM, PERCENT	5	29.00	23.00	26.32	1.09	29.15	23.76	24.78	26.32	27.95	29.50	30.47

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PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00935* POTASSIUM, DISSOLVED MG-L AS K	5	4.30	0.90	1.76	2.11	4.14	0.74	1.06	1.76	2.91	4.57	5.99
00940* CHLORIDE, DISSOLVED MG-L AS CL	5	6.30	4.70	5.55	1.16	6.56	4.71	5.04	5.55	6.12	6.68	7.04
00945* SULFATE, DISSOLVED MG-L AS SO4	5	200.00	66.00	137.12	1.57	230.41	81.60	101.10	137.12	185.96	244.58	288.12
00950* FLUORIDE, TOTAL MG-L AS F	5	0.30	0.20	0.28	1.20	0.34	0.22	0.24	0.28	0.31	0.35	0.37
00955* SILICA, DISSOLVED MG-L AS SIO2	5	22.00	9.10	15.88	1.49	25.02	10.07	12.16	15.88	20.74	26.37	30.44
01000* ARSENIC, DISSOLVED UG-L AS AS	3	9.00	4.00	6.60	1.55	14.77	2.95	4.91	6.60	8.88	11.58	13.58
01005* BARIUM, DISSOLVED UG-L AS BA	2	100.00	70.00	83.67	1.29	180.23	38.84	70.57	83.67	99.19	115.60	126.69
01010* BERYLLIUM, DISSOLVED UG-L AS BE	2	10.00	5.00	7.07	1.63	31.42	1.59	5.08	7.07	9.84	13.25	15.84
01015 BISMUTH, DISSOLVED UG-L AS BI	1	15.00	15.00									
01020* BORON, DISSOLVED UG-L AS B	3	150.00	50.00	87.72	1.73	240.84	31.95	60.53	87.72	127.13	177.49	216.70
01025* CADMIUM, DISSOLVED UG-L AS CD	3	1.00	1.00	1.00	1.00							
01030* CHROMIUM, DISSOLVED UG-L AS CR	3	10.00	10.00	10.00	1.00							
01035 COBALT, DISSOLVED UG-L AS CO	1	10.00	10.00									
01040* COPPER, DISSOLVED UG-L AS CU	3	19.00	2.00	6.11	3.08	48.32	0.77	2.86	6.11	13.06	25.87	38.93
01046* IRON, DISSOLVED UG-L AS FE	2	350.00	30.00	102.47	5.68	20235.77	0.52	31.72	102.47	331.01	950.14	1785.05
01049* LEAD, DISSOLVED UG-L AS PB	3	10.00	9.00	9.65	1.06	10.80	8.63	9.27	9.65	10.06	10.44	10.67
01056* MANGANESE, DISSOLVED UG-L AS MN	2	10.00	7.00	8.37	1.29							

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PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
01060*	MOLYBDENUM, DISS UG-L AS MO	2	40.00	38.00	38.99	1.04	43.53	34.92	38.05	38.99	39.95	40.84	41.38
01065*	NICKEL, DISSOLVED UG-L AS NI	2	10.00	3.00	5.48	2.34	73.04	0.41	3.08	5.48	9.73	16.31	22.22
01075	SILVER, DISSOLVED UG-L AS AG	1	2.00	2.00									
01080*	STRONTIUM, DISSOLVED UG-L AS SR	2	1400.00	920.00	1134.90	1.35	2799.54	460.07	928.89	1134.90	1386.59	1660.26	1849.09
01085*	VANADIUM, DISSOLVED UG-L AS V	2	10.00	4.00	6.32	1.91	45.41	0.88	4.08	6.32	9.79	14.51	18.36
01090*	ZINC, DISSOLVED UG-L AS ZN	2	10.00	10.00	10.00	1.00							
01100	TIN, DISSOLVED UG-L AS SN	1	10.00	10.00									
01106*	ALUMINUM, DISSOLVED UG-L AS AL	2	230.00	130.00	172.92	1.50	590.15	50.66	131.69	172.92	227.04	290.04	335.79
01120	GALLIUM, DISSOLVED UG-L AS GA	1	5.00	5.00									
01125	GERMANIUM, DISSOLVED UG-L AS GE	1	20.00	20.00									
01130*	LITHIUM, DISSOLVED UG-L AS LI	2	20.00	20.00	20.00	1.00	20.10	19.90	19.98	20.00	20.02	20.04	20.05
01145*	SELENIUM, DISSOLVED UG-L AS SE	3	3.00	1.00	2.08	1.89	6.67	0.65	1.36	2.08	3.19	4.69	5.91
01150	TITANIUM, DISSOLVED UG-L AS TI	1	7.00	7.00									
01160	ZIRCONIUM, DISSOLVED UG-L AS ZR	1	20.00	20.00									
01330*	ODOR, ATMOSPHERIC SEVERITY	4	1.00	0.00	0.03	53.96	8.02	0.00	0.00	0.03	0.47	5.25	22.35
03515*	GROSS BETA, DISS, AS CS-137 PC-L	2	5.80	3.70	4.63	1.37	12.19	1.76	3.74	4.63	5.74	6.96	7.81
09511	RADIUM 226, DISS RADON METHOD PC-L	1	0.16	0.16									

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PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
31501*	TOTAL COLIFORM	2	710.00	1.00	26.65	103.79316256.00		0.00	1.16	26.65	611.68	10240.51	55230.71
31616	COLIFORM, FECAL, MEMBRANE FILTER M-FC	1	200.00	200.00									
32730*	PHENOLS UG-L	2	3.00	0.00	0.05	287.54657983.00		0.00	0.00	0.05	2.50	77.73	606.89
39250	PC NAPTHALENES UG-L	1	0.00	0.00									
39330	ALDRIN IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39340	LINDANE IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39350	CHLORDANE IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39360	DDD IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39365	DDE IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39370	DDT IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39380	DIELDRIN IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39390	ENDRIN IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39400	TOXAPHENE IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39410	HEPTACHLOR IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE SAMPLE UG-	1	0.00	0.00									
39516	PCB IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39540	PARATHION IN WHOLE SAMPLE UG-L	1	0.00	0.00									

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PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
39570	DIAZINON IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39600	METHYL PARATHION IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39730	2,4-D IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39740	2,4,5-T IN WHOLE SAMPLE UG-L	1	0.00	0.00									
39760	SILVEX IN WHOLE SAMPLE UG-L	1	0.00	0.00									
70301*	DISSOLVED SOLIDS SUM OF CONSTITUENTS	5	573.00	243.00	431.60	1.44	657.07	283.49	337.22	431.60	552.38	689.60	787.46
70302*	DISSOLVED SOLIDS TONS PER DAY	5	2.47	0.11	0.44	3.84	2.08	0.09	0.18	0.44	1.10	2.48	4.04
70303*	DISSOLVED SOLIDS TONS PER ACRE-FOOT	5	0.78	0.33	0.58	1.42	0.87	0.39	0.46	0.58	0.73	0.91	1.03
71846*	NITROGEN, AMMONIA DISS MG-L AS NH4	2	0.01	0.01	0.01	1.00							
71870*	BROMIDE MG-L	2	0.10	0.00	0.01	25.95	200.91	0.00	0.00	0.01	0.09	0.65	2.12
71890*	MERCURY DISSOLVED UG-L AS HG	3	1.00	1.00	1.00	1.00							
80030*	GROSS ALPHA, DISS AS U UG-L	2	11.00	6.00	8.12	1.54	29.93	2.20	6.08	8.12	10.85	14.07	16.44
80040*	GROSS ALPHA, SUSP AS U UG-L	2	17.00	0.40	2.61	14.17	8312.48	0.00	0.44	2.61	15.61	78.06	204.35
80050*	GROSS BETA, DISS AS SR-90 PC-L	2	4.80	3.30	3.98	1.30	8.91	1.78	3.33	3.98	4.76	5.59	6.15
80060*	GROSS BETA, SUSP AS SR-90 PC-L	2	13.00	0.40	2.28	11.72	4081.45	0.00	0.43	2.28	12.01	53.52	130.80
80154	SEDIMENT SUSP, CONCENTRATION MG-L	1	9199.98	9199.98									
80155	SEDIMENT DISCHARGE, SUSP TONS-DAY	1	4.50	4.50									

END OF STATION 09306240 REPORTING PERIOD IS 06-24-76 THRU 06-16-78

Summary of Water Quality Data Collected at Corral Gulch near west line Tract C-a, June 1976-September 1978

H200ASA-2 CORRAL GULCH NEAR WEST LINE TRACT C-A STATION 09306235 REPORT DATE 01-17-79 PAGE 1

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00010&	TEMPERATURE, WATER DEG. C	10	30.00	2.50	15.37	10.34	22.65	8.09	8.39	15.37	22.35	28.62	32.37
00061	DISCHARGE, INSTANTANEOUS CFS	10	0.44	0.09	0.20	1.47	0.27	0.16	0.16	0.20	0.26	0.33	0.38
00070	TURBIDITY JTU	1	2.00	2.00									
00080*	COLOR PLATINUM - COBALT UNITS	6	25.00	3.00	4.88	2.29	11.15	2.14	2.79	4.88	8.53	14.09	19.02
00095*	CONDUCTIVITY UMHOS AT 25 DEG C	7	1100.00	260.00	862.65	1.70	1385.52	537.10	603.17	862.65	1233.74	1702.00	2063.13
00300*	DISSOLVED OXYGEN MG-L	6	10.30	6.80	8.25	1.15	9.47	7.19	7.52	8.25	9.06	9.85	10.36
00310*	BOD, 5 DAY MG-L	3	2.68	0.70	1.14	2.10	4.45	0.29	0.69	1.14	1.89	2.95	3.86
00340*	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	3	170.00	5.00	26.13	5.89	679.31	1.01	7.90	26.13	86.51	253.83	483.17
00400&	PH STANDARD UNITS	7	8.30	7.30	7.91	0.33	8.21	7.62	7.69	7.91	8.14	8.34	8.46
00405*	CARBON DIOXIDE MG-L AS CO2	6	31.00	2.90	7.68	2.40	18.39	3.21	4.26	7.68	13.85	23.55	32.33
00410*	ALKALINITY, TOTAL MG-L AS CACO3	7	350.00	110.00	268.83	1.50	385.59	187.43	204.73	268.83	352.99	450.96	522.09
00440*	BICARBONATE ION MG-L AS HCO3	7	430.00	140.00	330.10	1.48	467.23	233.21	253.92	330.10	429.13	543.31	625.64
00445*	CARBONATE ION MG-L AS CO3	7	1.00	1.00	1.00	1.00							
00550*	OIL-GREASE, TOTAL MG-L	3	8.00	1.00	2.00	3.32	18.15	0.22	0.89	2.00	4.50	9.32	14.41
00607*	DISSOLVED ORGANIC NITROGEN MG-L AS N	6	0.79	0.30	0.51	1.42	0.72	0.36	0.40	0.51	0.64	0.80	0.91
00608*	NITROGEN, AMMONIA, DISSOLVED MG-L AS N	6	0.05	0.01	0.02	1.98	0.03	0.01	0.01	0.02	0.03	0.04	0.05
00623*	DISS KJELDAHL NITROGEN MG-L AS N	6	0.84	0.30	0.52	1.44	0.76	0.36	0.41	0.52	0.67	0.84	0.96

STATION 09306235

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00631* NITROGEN, NO2 NO3, DISS MG-L AS N	6	1.90	0.28	0.77	1.92	1.46	0.40	0.49	0.77	1.19	1.76	2.23
00650* PHOSPHATE, TOTAL MG-L AS PO4	6	2.90	0.01	0.12	8.20	0.97	0.01	0.03	0.12	0.49	1.75	3.76
00660* PHOSPHATE, DISSOLVED ORTHO MG-L AS PO4	6	0.06	0.01	0.03	1.78	0.05	0.02	0.02	0.03	0.04	0.06	0.07
00665* PHOSPHORUS, TOTAL MG-L AS P	6	0.96	0.01	0.05	6.52	0.30	0.01	0.01	0.05	0.17	0.52	1.02
00671* ORTHOPHOSPHATE, DISS MG-L AS P	6	0.02	0.01	0.01	1.33	0.01	0.01	0.01	0.01	0.01	0.02	0.02
00681* CARBON, ORGANIC, DISS MG-L AS C	8	22.00	6.50	9.36	1.57	13.49	6.50	6.92	9.36	12.67	16.63	19.57
00689* CARBON, ORGANIC, SUSP MG-L AS C	5	4.00	0.10	0.48	5.58	3.46	0.07	0.15	0.48	1.53	4.34	8.09
00720* CYANIDE MG-L AS CN	3	0.01	0.01	0.01	1.49	0.02	0.00	0.01	0.01	0.01	0.01	0.02
00746* SULFIDE, DISSOLVED MG-L AS S	2	0.60	0.50	0.55	1.14	0.81	0.37	0.50	0.55	0.60	0.65	0.68
00900* HARDNESS, TOTAL MG-L AS CACO3	8	500.00	140.00	388.80	1.52	548.05	275.82	292.61	388.80	516.61	667.07	777.24
00902* HARDNESS AS CACO3 NONCARBONATE MG-L	7	150.00	27.00	104.62	1.83	179.54	60.96	69.58	104.62	157.30	226.99	282.66
00915* CALCIUM, DISSOLVED MG-L AS CA	8	99.00	32.00	72.12	1.45	97.56	53.32	56.16	72.12	92.62	115.97	132.67
00925* MAGNESIUM, DISSOLVED MG-L AS MG	8	62.00	15.00	49.81	1.63	74.00	33.52	35.89	49.81	69.13	92.82	110.72
00930* SODIUM, DISSOLVED MG-L AS NA	8	99.00	22.00	75.04	1.65	112.73	49.95	53.57	75.04	105.11	142.31	170.58
00931* SODIUM ADSORPTION RATIO	8	2.10	0.80	1.67	1.36	2.14	1.30	1.35	1.67	2.05	2.47	2.77
00932* SODIUM, PERCENT	8	35.00	25.00	29.47	1.12	32.24	26.93	27.35	29.47	31.74	33.94	35.33
00935* POTASSIUM, DISSOLVED MG-L AS K	8	2.80	1.30	1.86	1.29	2.29	1.50	1.56	1.86	2.21	2.58	2.84

STATION 09306235

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00940* CHLORIDE, DISSOLVED MG-L AS CL	8	9.80	3.80	7.52	1.35	9.59	5.89	6.15	7.52	9.20	11.03	12.29
00945* SULFATE, DISSOLVED MG-L AS SO4	8	300.00	52.00	229.76	1.82	375.20	140.70	153.09	229.76	344.83	496.80	618.03
00950* FLUORIDE, TOTAL MG-L AS F	8	0.30	0.10	0.26	1.47	0.36	0.19	0.20	0.26	0.34	0.43	0.50
00955* SILICA, DISSOLVED MG-L AS SIO2	8	23.00	5.80	17.83	1.59	25.97	12.24	13.06	17.83	24.34	32.20	38.07
01000* ARSENIC, DISSOLVED UG-L AS AS	3	8.00	5.00	6.54	1.27	10.21	4.19	5.56	6.54	7.70	8.92	9.74
01005* BARIUM, DISSOLVED UG-L AS BA	3	800.00	50.00	140.95	4.54	2270.96	8.75	50.76	140.95	391.37	980.48	1698.10
01010* BERYLLIUM, DISSOLVED UG-L AS BE	3	10.00	3.00	5.65	1.83							
01015* BISMUTH, DISSOLVED UG-L AS BI	2	20.00	6.00	10.95	2.34							
01020* BORON, DISSOLVED UG-L AS B	6	120.00	100.00	106.41	1.08	114.70	98.72	101.15	106.41	111.94	117.16	120.40
01025* CADMIUM, DISSOLVED UG-L AS CD	3	3.00	1.00	1.44	1.89	4.62	0.45	0.94	1.44	2.21	3.25	4.09
01030* CHROMIUM, DISSOLVED UG-L AS CR	3	10.00	10.00	10.00	1.00	10.04	9.96	9.98	10.00	10.02	10.03	10.04
01035* COBALT, DISSOLVED UG-L AS CO	2	15.00	6.00	9.49	1.91							
01040* COPPER, DISSOLVED UG-L AS CU	3	5.00	1.00	2.47	2.28	11.17	0.54	1.42	2.47	4.30	7.08	9.54
01046* IRON, DISSOLVED UG-L AS FE	3	30.00	10.00	14.42	1.89	46.25	4.50	9.40	14.42	22.13	32.52	40.94
01049* LEAD, DISSOLVED UG-L AS PB	3	22.00	1.00	4.04	4.79	71.89	0.23	1.40	4.04	11.64	30.12	53.20
01056* MANGANESE, DISSOLVED UG-L AS MN	3	20.00	10.00	12.60	1.49	26.28	6.04	9.62	12.60	16.51	21.05	24.34
01060* MOLYBDENUM, DISS UG-L AS MO	3	32.00	23.00	28.05	1.19	38.69	20.34	24.93	28.05	31.57	35.11	37.41

STATION 09306235

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
01065* NICKEL, DISSOLVED UG-L AS NI	3	15.00	1.00	4.48	3.96							
01075* SILVER, DISSOLVED UG-L AS AG	2	3.00	2.00	2.45	1.33							
01080* STRONTIUM, DISSOLVED UG-L AS SR	3	2000.00	1700.00	1829.15	1.09	2127.28	1572.80	1730.43	1829.15	1933.49	2032.40	2093.95
01085* VANADIUM, DISSOLVED UG-L AS V	3	15.00	8.00	11.60	1.39	21.24	6.33	9.29	11.60	14.49	17.69	19.94
01090* ZINC, DISSOLVED UG-L AS ZN	3	10.00	10.00	10.00	1.00							
01100* TIN, DISSOLVED UG-L AS SN	2	15.00	10.00	12.25	1.33							
01106* ALUMINUM, DISSOLVED UG-L AS AL	3	20.00	10.00	15.87	1.49	33.11	7.61	12.12	15.87	20.80	26.52	30.66
01120* GALLIUM, DISSOLVED UG-L AS GA	2	6.00	6.00	6.00	1.00							
01125* GERMANIUM, DISSOLVED UG-L AS GE	2	20.00	20.00	20.00	1.00							
01130* LITHIUM, DISSOLVED UG-L AS LI	3	20.00	20.00	20.00	1.00	20.07	19.93	19.98	20.00	20.02	20.05	20.06
01145* SELENIUM, DISSOLVED UG-L AS SE	3	4.00	2.00	2.88	1.42	5.47	1.52	2.28	2.88	3.65	4.51	5.12
01150* TITANIUM, DISSOLVED UG-L AS TI	2	10.00	3.00	5.48	2.34							
01160* ZIRCONIUM, DISSOLVED UG-L AS ZR	2	30.00	10.00	17.32	2.17							
01330* ODOR, ATMOSPHERIC SEVERITY	7	1.00	0.00	0.02	40.14	0.52	0.00	0.00	0.02	0.23	2.20	8.39
03515* GROSS BETA, DISS, AS CS-137 PC-L	3	5.50	3.50	4.22	1.27	6.51	2.73	3.60	4.22	4.95	5.71	6.22
09511* RADIUM 226, DISS RADON METHOD PC-L	2	0.11	0.10	0.10	1.07	0.13	0.09	0.10	0.10	0.11	0.11	0.12
31501* TOTAL COLIFORM	2	3199.99	96.00	554.26	11.94047	558.56	0.29	103.95	554.26	2955.11	13311.08	32741.93

STATION 09306235

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
31616	COLIFORM, FECAL, MEMBRANE FILTER M-FC	1	10.00	10.00									
31679	FECAL STREPTOCOCCI	1	30.00	30.00									
32730*	PHENOLS UG-L	3	3.00	1.00	1.82	1.74	5.04	0.65	1.25	1.82	2.64	3.70	4.53
39250*	PC NAPTHALENES UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39330*	ALDRIN IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39340*	LINDANE IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39350*	CHLORDANE IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39360*	DDD IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39365*	DDE IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39370*	DDT IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39380*	DIELDRIN IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39390*	ENDRIN IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39400*	TOXAPHENE IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39410*	HEPTACHLOR IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39420*	HEPTACHLOR EPOXIDE IN WHOLE SAMPLE UG-	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39516*	PCB IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39540*	PARATHION IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATION 09306235

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
39570*	DIAZINON IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39600*	METHYL PARATHION IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39730*	2,4-D IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39740*	2,4,5-T IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39760*	SILVEX IN WHOLE SAMPLE UG-L	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70301*	DISSOLVED SOLIDS SUM OF CONSTITUENTS	7	770.00	202.00	611.13	1.63	946.33	394.66	439.27	611.13	850.24	1144.20	1366.54
70302*	DISSOLVED SOLIDS TONS PER DAY	7	0.86	0.11	0.32	2.10	0.61	0.16	0.19	0.32	0.52	0.82	1.07
70303*	DISSOLVED SOLIDS TONS PER ACRE-FOOT	7	1.05	0.27	0.83	1.64	1.29	0.53	0.59	0.83	1.15	1.56	1.86
71846*	NITROGEN, AMMONIA DISS MG-L AS NH4	6	0.06	0.01	0.02	2.25	0.05	0.01	0.01	0.02	0.04	0.06	0.08
71870*	BROMIDE MG-L	3	0.10	0.10	0.10	1.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10
71890*	MERCURY DISSOLVED UG-L AS HG	3	1.00	1.00	1.00	1.00							
80010	URANIUM, DIRECT PC-L	1	3.40	3.40									
80030*	GROSS ALPHA, DISS AS U UG-L	3	14.00	8.20	10.44	1.31							
80040*	GROSS ALPHA, SUSP AS U UG-L	3	110.00	0.40	5.20	17.11	959.18	0.03	0.77	5.20	35.37	198.28	555.84
80050*	GROSS BETA, DISS AS SR-90 PC-L	3	4.60	2.80	3.52	1.28	5.58	2.23	2.98	3.52	4.17	4.86	5.32
80060*	GROSS BETA, SUSP AS SR-90 PC-L	3	60.00	0.40	3.57	12.99	397.13	0.03	0.63	3.57	20.17	95.65	242.64
80154*	SEDIMENT SUSP, CONCENTRATION MG-L	2	894.00	351.00	560.17	1.94	4186.80	74.95	358.53	560.17	875.22	1307.33	1661.90

Summary of Water Quality Data Collected at Corral Gulch east of Tract C-a, June 1976-October 1978

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PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00010& TEMPERATURE, WATER DEG. C	16	22.00	1.00	12.36	5.45	15.25	9.47	8.68	12.36	16.04	19.35	21.33
00060 DISCHARGE, STREAM CFS	1	1.50	1.50									
00061 DISCHARGE, INSTANTANEOUS CFS	16	4.30	0.21	0.71	3.18	1.30	0.38	0.32	0.71	1.54	3.10	4.72
00070 TURBIDITY JTU	1	520.00	520.00									
00080* COLOR PLATINUM - COBALT UNITS	7	12.00	3.00	5.01	1.72	8.15	3.08	3.47	5.01	7.23	10.07	12.26
00095 CONDUCTIVITY UMHOS AT 25 DEG C	16	1400.00	1000.00	1217.94	1.08	1268.30	1169.58	1156.68	1217.94	1282.44	1343.35	1381.15
00300 DISSOLVED OXYGEN MG-L	15	12.80	7.10	9.46	1.14	10.18	8.80	8.65	9.46	10.34	11.21	11.76
00310* BOD, 5 DAY MG-L	3	3.60	2.00	2.51	1.37	4.48	1.41	2.03	2.51	3.11	3.76	4.22
00340* CHEMICAL OXYGEN DEMAND, .25 N K2CR07	4	120.00	5.00	15.95	4.30	120.94	2.10	5.96	15.95	42.73	103.60	175.97
00400& PH STANDARD UNITS	16	8.50	7.20	7.82	0.33	8.00	7.65	7.60	7.82	8.05	8.25	8.37
00405 CARBON DIOXIDE MG-L AS CO2	15	60.00	2.60	11.75	2.22	18.20	7.58	6.86	11.75	20.10	32.59	43.51
00410 ALKALINITY, TOTAL MG-L AS CACO3	15	480.00	294.00	403.76	1.12	429.46	379.60	374.33	403.76	435.51	466.18	485.55
00440 BICARBONATE ION MG-L AS HCO3	15	590.00	358.00	492.90	1.12	524.46	463.24	456.77	492.90	531.89	569.58	593.38
00445* CARBONATE ION MG-L AS CO3	15	1.00	1.00	1.00	1.00							
00550* OIL-GREASE, TOTAL MG-L	4	16.00	1.00	3.64	4.48	29.23	0.45	1.32	3.64	10.03	24.93	42.98
00607* DISSOLVED ORGANIC NITROGEN MG-L AS N	7	0.89	0.24	0.38	1.58	0.57	0.25	0.28	0.38	0.51	0.67	0.80
00608* NITROGEN, AMMONIA, DISSOLVED MG-L AS N	7	0.03	0.01	0.02	1.80	0.03	0.01	0.01	0.02	0.03	0.04	0.05

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00623*	DISS KJELDAHL NITROGEN MG-L AS N	7	0.92	0.24	0.39	1.58	0.59	0.26	0.29	0.39	0.53	0.70	0.83
00631*	NITROGEN, NO2 NO3, DISS MG-L AS N	9	0.90	0.09	0.24	2.02	0.40	0.14	0.15	0.24	0.38	0.58	0.75
00650*	PHOSPHATE, TOTAL MG-L AS PO4	6	4.30	0.09	0.26	4.33	1.11	0.06	0.10	0.26	0.69	1.68	2.87
00660*	PHOSPHATE, DISSOLVED ORTHO MG-L AS PO4	7	0.12	0.01	0.06	2.30	0.13	0.03	0.03	0.06	0.11	0.18	0.24
00665*	PHOSPHORUS, TOTAL MG-L AS P	9	1.40	0.01	0.05	4.38	0.15	0.02	0.02	0.05	0.13	0.32	0.55
00671*	ORTHOPHOSPHATE, DISS MG-L AS P	7	0.04	0.01	0.02	1.58	0.04	0.02	0.02	0.02	0.03	0.04	0.05
00681*	CARBON, ORGANIC, DISS MG-L AS C	15	16.00	1.70	6.32	1.62	8.24	4.85	4.57	6.32	8.75	11.72	13.96
00689*	CARBON, ORGANIC, SUSP MG-L AS C	7	5.00	0.30	0.80	2.56	1.86	0.35	0.43	0.80	1.52	2.69	3.78
00720*	CYANIDE MG-L AS CN	4	0.01	0.01	0.01	1.00							
00746*	SULFIDE, DISSOLVED MG-L AS S	2	0.60	0.60	0.60	1.00	0.60	0.60	0.60	0.60	0.60	0.60	0.60
00900	HARDNESS, TOTAL MG-L AS CACO3	16	530.00	430.00	466.69	1.10	491.38	443.23	437.02	466.69	498.36	528.68	547.69
00902*	HARDNESS AS CACO3 NONCARBONATE MG-L	15	130.00	1.00	53.55	3.35	104.20	27.53	23.67	53.55	121.17	252.51	391.73
00915	CALCIUM, DISSOLVED MG-L AS CA	16	91.00	55.00	81.04	1.07	84.05	78.14	77.36	81.04	84.89	88.52	90.76
00925	MAGNESIUM, DISSOLVED MG-L AS MG	16	80.00	55.00	68.28	1.15	73.66	63.30	62.00	68.28	75.20	82.02	86.39
00930	SODIUM, DISSOLVED MG-L AS NA	16	180.00	97.00	123.08	1.24	137.90	109.85	106.49	123.08	142.26	162.04	175.16
00931	SODIUM ADSORPTION RATIO	16	3.70	1.90	2.28	1.27	2.59	2.01	1.94	2.28	2.68	3.10	3.38
00932	SODIUM, PERCENT	16	47.00	30.00	34.57	1.12	36.75	32.51	31.97	34.57	37.37	40.09	41.81

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00935 POTASSIUM, DISSOLVED MG-L AS K	16	3.30	1.20	1.62	1.25	1.83	1.44	1.40	1.62	1.89	2.16	2.34
00940 CHLORIDE, DISSOLVED MG-L AS CL	16	18.00	8.60	11.21	1.17	12.18	10.31	10.08	11.21	12.46	13.70	14.50
00945 SULFATE, DISSOLVED MG-L AS SO4	16	350.00	250.00	298.77	1.15	322.20	277.04	271.38	298.77	328.93	358.64	377.68
00950 FLUORIDE, TOTAL MG-L AS F	16	1.20	0.40	0.46	1.76	0.62	0.34	0.31	0.46	0.67	0.95	1.17
00955 SILICA, DISSOLVED MG-L AS SIO2	16	32.00	19.00	20.86	1.07	21.63	20.11	19.91	20.86	21.85	22.79	23.36
01000* ARSENIC, DISSOLVED UG-L AS AS	6	9.00	4.00	6.43	1.36	8.71	4.74	5.23	6.43	7.90	9.50	10.61
01005* BARIUM, DISSOLVED UG-L AS BA	4	100.00	30.00	65.14	1.77	143.72	29.52	44.33	65.14	95.71	135.29	166.41
01010* BERYLLIUM, DISSOLVED UG-L AS BE	4	20.00	3.00	8.05	2.20	24.08	2.69	4.73	8.05	13.72	22.15	29.49
01015* BISMUTH, DISSOLVED UG-L AS BI	2	20.00	7.00	11.83	2.10							
01020* BORON, DISSOLVED UG-L AS B	9	140.00	90.00	116.91	1.14	128.99	105.96	107.06	116.91	127.67	138.19	144.89
01025* CADMIUM, DISSOLVED UG-L AS CD	6	3.00	1.00	1.62	1.73	2.80	0.94	1.12	1.62	2.34	3.27	3.99
01030* CHROMIUM, DISSOLVED UG-L AS CR	6	15.00	4.00	9.18	1.55	14.23	5.93	6.83	9.18	12.35	16.11	18.89
01035* COBALT, DISSOLVED UG-L AS CO	2	15.00	7.00	10.25	1.71							
01040* COPPER, DISSOLVED UG-L AS CU	6	11.00	1.00	4.37	2.31	10.08	1.89	2.48	4.37	7.69	12.78	17.32
01046* IRON, DISSOLVED UG-L AS FE	4	70.00	10.00	38.07	2.46	133.08	10.89	20.71	38.07	69.97	120.95	167.79
01049* LEAD, DISSOLVED UG-L AS PB	6	36.00	2.00	5.82	3.25	18.88	1.79	2.63	5.82	12.89	26.35	40.42
01056* MANGANESE, DISSOLVED UG-L AS MN	4	80.00	10.00	26.32	2.38	87.92	7.88	14.64	26.32	47.32	80.18	109.92

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
01060* MOLYBDENUM, DISS UG-L AS MO	4	50.00	19.00	29.36	1.54	53.30	16.17	21.97	29.36	39.24	50.93	59.53
01065* NICKEL, DISSOLVED UG-L AS NI	4	15.00	1.00	3.81	3.38	20.65	0.70	1.67	3.81	8.66	18.15	28.24
01075* SILVER, DISSOLVED UG-L AS AG	2	3.00	2.00	2.45	1.33							
01080* STRONTIUM, DISSOLVED UG-L AS SR	4	2199.99	1600.00	1862.69	1.14	2237.18	1550.88	1703.92	1862.69	2036.26	2206.10	2314.37
01085* VANADIUM, DISSOLVED UG-L AS V	4	15.00	3.00	7.20	2.20	21.45	2.42	4.24	7.20	12.25	19.74	26.26
01090* ZINC, DISSOLVED UG-L AS ZN	4	40.00	10.00	16.82	1.94	42.25	6.69	10.75	16.82	26.32	39.38	50.11
01100* TIN, DISSOLVED UG-L AS SN	2	15.00	10.00	12.25	1.33							
01106* ALUMINUM, DISSOLVED UG-L AS AL	4	100.00	10.00	26.59	3.20	133.82	5.28	12.12	26.59	58.35	118.29	180.50
01120* GALLIUM, DISSOLVED UG-L AS GA	2	7.00	7.00	7.00	1.00							
01125* GERMANIUM, DISSOLVED UG-L AS GE	2	20.00	20.00	20.00	1.00							
01130* LITHIUM, DISSOLVED UG-L AS LI	4	30.00	10.00	18.61	1.58	35.05	9.88	13.68	18.61	25.32	33.40	39.41
01145* SELENIUM, DISSOLVED UG-L AS SE	6	3.00	1.00	2.04	1.49	3.05	1.37	1.56	2.04	2.67	3.41	3.95
01150* TITANIUM, DISSOLVED UG-L AS TI	2	10.00	3.00	5.48	2.34							
01160* ZIRCONIUM, DISSOLVED UG-L AS ZR	2	30.00	10.00	17.32	2.17							
01330* ODOR, ATMOSPHERIC SEVERITY	12	3.00	0.00	0.04	43.70	0.40	0.00	0.00	0.04	0.47	4.65	18.34
03515* GROSS BETA, DISS, AS CS-137 PC-L	4	6.40	2.40	3.89	1.52	6.96	2.17	2.93	3.89	5.16	6.66	7.76
09511* RADIUM 226, DISS RADON METHOD PC-L	3	0.21	0.06	0.12	1.90	0.39	0.04	0.08	0.12	0.19	0.27	0.35

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PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
31501* TOTAL COLIFORM	2	580.00	180.00	323.11	2.29	4005.45	26.06	184.84	323.11	564.80	933.25	1260.18
31616* COLIFORM, FECAL, MEMBRANE FILTER M-FC	2	220.00	180.00	199.00	1.15	306.48	129.21	180.82	199.00	219.00	238.71	251.33
32730* PHENOLS UG-L	4	5.00	0.00	0.06	118.45	47.00	0.00	0.00	0.06	1.56	28.33	160.32
39250* PC NAPTHALENES UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39330* ALDRIN IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39340* LINDANE IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39350* CHLORDANE IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39360* DDD IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39365* DDE IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39370* DDT IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39380* DIELDRIN IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39390* ENDRIN IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39400* TOXAPHENE IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39410* HEPTACHLOR IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39420* HEPTACHLOR EPOXIDE IN WHOLE SAMPLE UG-	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39516* PCB IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39540* PARATHION IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATION 09306242

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
39570*	DIAZINON IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39600*	METHYL PARATHION IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39730*	2,4-D IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39740*	2,4,5-T IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39760*	SILVEX IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70301	DISSOLVED SOLIDS SUM OF CONSTITUENTS	15	963.00	714.00	845.46	1.13	902.16	792.33	780.75	845.46	915.53	983.49	1026.52
70302	DISSOLVED SOLIDS TONS PER DAY	15	10.90	0.54	1.41	2.69	2.43	0.82	0.72	1.41	2.75	5.01	7.18
70303	DISSOLVED SOLIDS TONS PER ACRE-FOOT	15	1.31	0.97	1.15	1.13	1.23	1.07	1.06	1.15	1.25	1.35	1.41
71846*	NITROGEN, AMMONIA DISS MG-L AS NH4	7	0.04	0.01	0.02	2.10	0.04	0.01	0.01	0.02	0.04	0.06	0.07
71870*	BROMIDE MG-L	4	0.10	0.10	0.10	1.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10
71890*	MERCURY DISSOLVED UG-L AS HG	6	1.00	1.00	1.00	1.00							
80010	URANIUM, DIRECT PC-L	1	2.70	2.70									
80030*	GROSS ALPHA, DISS AS U UG-L	4	18.00	8.00	12.24	1.40	19.45	7.71	9.77	12.24	15.33	18.77	21.19
80040*	GROSS ALPHA, SUSP AS U UG-L	4	290.00	0.40	2.08	26.93	200.55	0.02	0.22	2.08	19.16	141.45	467.49
80050*	GROSS BETA, DISS AS SR-90 PC-L	4	5.10	2.00	3.24	1.51	5.76	1.82	2.45	3.24	4.29	5.51	6.41
80060*	GROSS BETA, SUSP AS SR-90 PC-L	4	170.00	0.50	2.41	17.20	125.23	0.05	0.35	2.41	16.47	92.63	260.15
80154	SEDIMENT SUSP, CONCENTRATION MG-L	1	2110.00	2110.00									

Summary of Water Quality Data Collected at Yellow Creek near White River, June 1976-October 1978

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PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00010& TEMPERATURE, WATER DEG. C	15	28.00	0.50	14.20	8.29	18.76	9.64	8.60	14.20	19.80	24.83	27.84
00061 DISCHARGE, INSTANTANEOUS CFS	14	28.90	0.27	1.17	1.76	1.61	0.84	0.80	1.17	1.70	2.40	2.95
00080* COLOR PLATINUM - COBALT UNITS	9	34.00	7.00	15.91	1.59	22.59	11.21	11.63	15.91	21.77	28.87	34.17
00095 CONDUCTIVITY UMHOS AT 25 DEG C	15	4499.99	3499.99	4051.02	1.09	4249.90	3861.43	3819.68	4051.02	4296.35	4529.63	4675.16
00300 DISSOLVED OXYGEN MG-L	13	12.60	5.60	7.99	1.35	9.56	6.68	6.53	7.99	9.79	11.74	13.09
00310* BOD, 5 DAY MG-L	3	2.00	1.00	1.41	1.41	2.66	0.75	1.12	1.41	1.78	2.20	2.49
00340* CHEMICAL OXYGEN DEMAND, .25 N K2CR07	5	63.00	17.00	34.67	1.84	69.81	17.22	22.99	34.67	52.29	75.66	94.37
00400& PH STANDARD UNITS	15	9.00	7.60	8.67	0.45	8.92	8.42	8.36	8.67	8.98	9.25	9.42
00405 CARBON DIOXIDE MG-L AS CO2	12	63.00	3.60	4.85	1.75	6.90	3.41	3.32	4.85	7.08	9.94	12.19
00410 ALKALINITY, TOTAL MG-L AS CACO3	13	1830.00	1290.00	1621.26	1.05	1669.49	1574.43	1568.59	1621.26	1675.70	1726.22	1757.15
00440 BICARBONATE ION MG-L AS HCO3	12	2060.00	1300.00	1691.06	1.17	1867.51	1531.28	1520.21	1691.06	1881.11	2070.19	2192.22
00445 CARBONATE ION MG-L AS CO3	11	277.00	1.00	203.19	2.58	381.39	108.25	107.09	203.19	385.53	685.79	967.79
00550* OIL-GREASE, TOTAL MG-L	5	1.00	1.00	1.00	1.00							
00607* DISSOLVED ORGANIC NITROGEN MG-L AS N	9	1.30	0.31	0.61	1.56	0.86	0.44	0.45	0.61	0.83	1.09	1.28
00608* NITROGEN, AMMONIA, DISSOLVED MG-L AS N	9	0.06	0.01	0.02	2.08	0.03	0.01	0.01	0.02	0.03	0.04	0.05
00623* DISS KJELDAHL NITROGEN MG-L AS N	9	1.30	0.34	0.63	1.52	0.87	0.46	0.47	0.63	0.84	1.08	1.26
00631* NITROGEN, NO2 NO3, DISS MG-L AS N	11	0.69	0.01	0.06	5.79	0.20	0.02	0.02	0.06	0.21	0.60	1.14

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00650* PHOSPHATE, TOTAL MG-L AS PO4	8	0.64	0.06	0.13	2.36	0.26	0.06	0.07	0.13	0.23	0.39	0.53
00660* PHOSPHATE, DISSOLVED ORTHO MG-L AS PO4	9	0.21	0.01	0.03	3.02	0.07	0.01	0.02	0.03	0.07	0.13	0.20
00665 PHOSPHORUS, TOTAL MG-L AS P	11	0.21	0.02	0.03	2.00	0.05	0.02	0.02	0.03	0.05	0.07	0.09
00671* ORTHOPHOSPHATE, DISS MG-L AS P	9	0.07	0.01	0.02	2.10	0.03	0.01	0.01	0.02	0.03	0.04	0.05
00681* CARBON, ORGANIC, DISS MG-L AS C	11	43.00	6.10	9.90	1.76	14.38	6.81	6.77	9.90	14.47	20.37	24.99
00689* CARBON, ORGANIC, SUSP MG-L AS C	7	3.00	0.30	0.78	2.67	1.88	0.33	0.40	0.78	1.52	2.76	3.94
00720* CYANIDE MG-L AS CN	5	0.01	0.01	0.01	1.00							
00746* SULFIDE, DISSOLVED MG-L AS S	2	0.30	0.10	0.17	2.17	1.84	0.02	0.10	0.17	0.29	0.47	0.62
00900 HARDNESS, TOTAL MG-L AS CACO3	14	1000.00	320.00	528.18	1.20	585.53	476.45	467.81	528.18	596.34	665.12	709.98
00902* HARDNESS AS CACO3 NONCARBONATE MG-L	12	1.00	1.00	1.00	1.00							
00915 CALCIUM, DISSOLVED MG-L AS CA	14	47.00	17.00	24.99	1.45	30.95	20.18	19.43	24.99	32.15	40.33	46.17
00925 MAGNESIUM, DISSOLVED MG-L AS MG	14	240.00	50.00	109.86	1.18	120.54	100.12	98.49	109.86	122.54	135.19	143.37
00930 SODIUM, DISSOLVED MG-L AS NA	14	970.00	800.00	866.61	1.07	900.73	833.78	828.08	866.61	906.92	944.78	968.17
00931 SODIUM ADSORPTION RATIO	14	22.00	13.00	16.29	1.15	17.65	15.04	14.83	16.29	17.90	19.48	20.49
00932 SODIUM, PERCENT	14	86.00	67.00	78.61	1.06	81.10	76.19	75.77	78.61	81.55	84.29	85.98
00935 POTASSIUM, DISSOLVED MG-L AS K	14	6.70	3.90	4.79	1.18	5.27	4.36	4.28	4.79	5.36	5.93	6.30
00940 CHLORIDE, DISSOLVED MG-L AS CL	14	220.00	110.00	159.04	1.26	181.79	139.14	135.87	159.04	186.16	214.47	233.42

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PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00945	SULFATE, DISSOLVED MG-L AS SO4	14	630.00	490.00	564.50	1.07	587.50	542.39	538.56	564.50	591.68	617.25	633.06
00950	FLUORIDE, TOTAL MG-L AS F	14	3.00	1.40	2.61	1.22	2.92	2.33	2.29	2.61	2.98	3.35	3.60
00955	SILICA, DISSOLVED MG-L AS SIO2	14	13.00	1.80	8.83	1.61	11.59	6.73	6.41	8.83	12.17	16.23	19.28
01000*	ARSENIC, DISSOLVED UG-L AS AS	6	10.00	2.00	5.31	1.79	9.48	2.97	3.59	5.31	7.85	11.17	13.79
01005*	BARIUM, DISSOLVED UG-L AS BA	5	400.00	60.00	119.14	2.04	270.22	52.52	73.66	119.14	192.68	296.91	384.51
01010*	BERYLLIUM, DISSOLVED UG-L AS BE	5	20.00	10.00	13.20	1.46							
01015*	BISMUTH, DISSOLVED UG-L AS BI	2	70.00	20.00	37.42	2.43							
01020	BORON, DISSOLVED UG-L AS B	12	960.00	630.00	766.49	1.11	819.32	717.07	713.58	766.49	823.32	878.01	912.44
01025*	CADMIUM, DISSOLVED UG-L AS CD	8	2.00	1.00	1.19	1.38	1.54	0.92	0.96	1.19	1.48	1.79	2.02
01030*	CHROMIUM, DISSOLVED UG-L AS CR	8	20.00	10.00	10.91	1.28							
01035*	COBALT, DISSOLVED UG-L AS CO	2	50.00	20.00	31.62	1.91							
01040*	COPPER, DISSOLVED UG-L AS CU	8	10.00	1.00	3.08	2.52	6.53	1.45	1.65	3.08	5.74	10.06	14.07
01046*	IRON, DISSOLVED UG-L AS FE	6	80.00	20.00	41.85	1.68	70.26	24.93	29.49	41.85	59.40	81.37	98.22
01049*	LEAD, DISSOLVED UG-L AS PB	8	50.00	2.00	6.44	3.62	18.41	2.26	2.70	6.44	15.36	33.56	53.55
01056*	MANGANESE, DISSOLVED UG-L AS MN	6	30.00	10.00	15.13	1.61	24.37	9.39	10.96	15.13	20.88	27.90	33.17
01060*	MOLYBDENUM, DISS UG-L AS MO	6	41.00	16.00	23.41	1.37	32.18	17.04	18.89	23.41	29.03	35.22	39.53
01065*	NICKEL, DISSOLVED UG-L AS NI	5	50.00	1.00	3.98	6.82							

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
01075* SILVER, DISSOLVED UG-L AS AG	2	10.00	5.00	7.07	1.63							
01080* STRONTIUM, DISSOLVED UG-L AS SR	6	3699.99	2199.99	2943.04	1.24	3655.33	2369.55	2542.11	2943.04	3407.21	3886.82	4205.31
01085* VANADIUM, DISSOLVED UG-L AS V	5	50.00	5.00	13.77	3.00	48.62	3.90	6.57	13.77	28.88	56.21	83.70
01090* ZINC, DISSOLVED UG-L AS ZN	6	10.00	10.00	10.00	1.00	10.02	9.98	9.98	10.00	10.02	10.03	10.04
01100* TIN, DISSOLVED UG-L AS SN	2	50.00	31.00	39.37	1.40							
01106* ALUMINUM, DISSOLVED UG-L AS AL	6	100.00	10.00	17.63	2.60	45.86	6.78	9.24	17.63	33.63	60.13	85.11
01120* GALLIUM, DISSOLVED UG-L AS GA	2	20.00	20.00	20.00	1.00							
01125* GERMANIUM, DISSOLVED UG-L AS GE	2	70.00	50.00	59.16	1.27							
01130* LITHIUM, DISSOLVED UG-L AS LI	6	180.00	150.00	167.78	1.09	183.47	153.43	157.94	167.78	178.23	188.18	194.39
01145* SELENIUM, DISSOLVED UG-L AS SE	6	5.00	1.00	1.65	1.90	3.13	0.87	1.07	1.65	2.54	3.75	4.73
01150* TITANIUM, DISSOLVED UG-L AS TI	2	30.00	10.00	17.32	2.17							
01160* ZIRCONIUM, DISSOLVED UG-L AS ZR	2	100.00	40.00	63.25	1.91							
01330* ODOR, ATMOSPHERIC SEVERITY	10	1.00	0.00	0.02	35.42	0.20	0.00	0.00	0.02	0.18	1.53	5.60
03515* GROSS BETA, DISS, AS CS-137 PC-L	4	45.00	7.70	13.83	2.23	41.99	4.56	8.06	13.83	23.74	38.58	51.58
09511* RADIUM 226, DISS RADON METHOD PC-L	3	0.18	0.12	0.15	1.23	0.22	0.10	0.13	0.15	0.17	0.20	0.21
31616 COLIFORM, FECAL, MEMBRANE FILTER M-FC	1	110.00	110.00									
31679 FECAL STREPTOCOCCI	1	56.00	56.00									

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
32730* PHENOLS UG-L	5	1.00	0.00	0.02	43.97	1.23	0.00	0.00	0.02	0.20	2.03	8.00
39250* PC NAPTHALENES UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39330* ALDRIN IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39340* LINDANE IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39350* CHLORDANE IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39360* DDD IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39365* DDE IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39370* DDT IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39380* DIELDRIN IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39390* ENDRIN IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39400* TOXAPHENE IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39410* HEPTACHLOR IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39420* HEPTACHLOR EPOXIDE IN WHOLE SAMPLE UG-	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39516* PCB IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39540* PARATHION IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39570* DIAZINON IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39600* METHYL PARATHION IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATION 09306255

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
39730*	2,4-D IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39740*	2,4,5-T IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39760*	SILVEX IN WHOLE SAMPLE UG-L	3	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70301	DISSOLVED SOLIDS SUM OF CONSTITUENTS	12	2859.99	2560.00	2701.52	1.05	2786.17	2619.44	2613.54	2701.52	2792.46	2876.85	2928.53
70302	DISSOLVED SOLIDS TONS PER DAY	12	210.00	1.97	8.00	1.56	10.59	6.04	5.91	8.00	10.81	14.18	16.68
70303	DISSOLVED SOLIDS TONS PER ACRE-FOOT	12	3.89	3.48	3.69	1.04	3.79	3.59	3.59	3.69	3.79	3.89	3.95
71846*	NITROGEN, AMMONIA DISS MG-L AS NH4	9	0.08	0.01	0.02	2.37	0.03	0.01	0.01	0.02	0.03	0.05	0.07
71870*	BROMIDE MG-L	5	0.80	0.10	0.34	2.40	0.93	0.12	0.19	0.34	0.61	1.04	1.43
71890*	MERCURY DISSOLVED UG-L AS HG	6	1.00	1.00	1.00	1.00							
80010	URANIUM, DIRECT PC-L	1	3.40	3.40									
80030*	GROSS ALPHA, DISS AS U UG-L	4	68.00	33.00	46.31	1.36	70.94	30.24	37.64	46.31	56.98	68.66	76.76
80040*	GROSS ALPHA, SUSP AS U UG-L	4	22.00	0.60	1.85	5.31	18.76	0.18	0.60	1.85	5.70	15.71	28.82
80050*	GROSS BETA, DISS AS SR-90 PC-L	4	36.00	6.20	11.46	2.18	33.91	3.87	6.76	11.46	19.42	31.21	41.45
80060*	GROSS BETA, SUSP AS SR-90 PC-L	4	11.00	0.60	1.63	3.68	9.97	0.27	0.68	1.63	3.94	8.68	13.93
80154	SEDIMENT SUSP, CONCENTRATION MG-L	1	4790.00	4790.00									
80155	SEDIMENT DISCHARGE, SUSP TONS-DAY	1	16.00	16.00									

END OF STATION 09306255 REPORTING PERIOD IS 06-23-76 THRU 10-24-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM

APPENDIX 5-1.2

USGS SURFACE GAGING STATION DATA - INDIVIDUAL ANALYSES

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00010	TEMPERATURE, WATER DEG. C	1	3.00	3.00									
00080	COLOR PLATINUM - COBALT UNITS	1	120.00	120.00									
00095	CONDUCTIVITY UMHOS AT 25 DEG C	1	500.00	500.00									
00340	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	1	56.00	56.00									
00410	ALKALINITY, TOTAL MG-L AS CACO3	1	190.00	190.00									
00440	BICARBONATE ION MG-L AS HCO3	1	230.00	230.00									
00445	CARBONATE ION MG-L AS CO3	1	1.00	1.00									
00607	DISSOLVED ORGANIC NITROGEN MG-L AS N	1	1.20	1.20									
00608	NITROGEN, AMMONIA, DISSOLVED MG-L AS N	1	0.85	0.85									
00623	DISS KJELDAHL NITROGEN MG-L AS N	1	2.00	2.00									
00631	NITROGEN, NO2 NO3, DISS MG-L AS N	1	1.50	1.50									
00650	PHOSPHATE, TOTAL MG-L AS PO4	1	1.20	1.20									
00660	PHOSPHATE, DISSOLVED ORTHO MG-L AS PO4	1	0.06	0.06									
00665	PHOSPHORUS, TOTAL MG-L AS P	1	0.38	0.38									
00671	ORTHOPHOSPHATE, DISS MG-L AS P	1	0.02	0.02									
00900	HARDNESS, TOTAL MG-L AS CACO3	1	200.00	200.00									
00902	HARDNESS AS CACO3 NONCARBONATE MG-L	1	15.00	15.00									

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00915	CALCIUM, DISSOLVED MG-L AS CA	1	50.00	50.00									
00925	MAGNESIUM, DISSOLVED MG-L AS MG	1	19.00	19.00									
00930	SODIUM, DISSOLVED MG-L AS NA	1	36.00	36.00									
00931	SODIUM ADSORPTION RATIO	1	1.10	1.10									
00932	SODIUM, PERCENT	1	27.00	27.00									
00935	POTASSIUM, DISSOLVED MG-L AS K	1	4.90	4.90									
00940	CHLORIDE, DISSOLVED MG-L AS CL	1	4.80	4.80									
00945	SULFATE, DISSOLVED MG-L AS SO4	1	93.00	93.00									
00950	FLUORIDE, TOTAL MG-L AS F	1	0.60	0.60									
00955	SILICA, DISSOLVED MG-L AS SIO2	1	15.00	15.00									
01000	ARSENIC, DISSOLVED UG-L AS AS	1	13.00	13.00									
01005	BARIUM, DISSOLVED UG-L AS BA	1	100.00	100.00									
01010	BERYLLIUM, DISSOLVED UG-L AS BE	1	10.00	10.00									
01020	BORON, DISSOLVED UG-L AS B	1	180.00	180.00									
01025	CADMIUM, DISSOLVED UG-L AS CD	1	1.00	1.00									
01030	CHROMIUM, DISSOLVED UG-L AS CR	1	5.00	5.00									
01040	COPPER, DISSOLVED UG-L AS CU	1	10.00	10.00									

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
01046	IRON, DISSOLVED UG-L AS FE	1	50.00	50.00									
01049	LEAD, DISSOLVED UG-L AS PB	1	1.00	1.00									
01056	MANGANESE, DISSOLVED UG-L AS MN	1	60.00	60.00									
01060	MOLYBDENUM, DISS UG-L AS MO	1	12.00	12.00									
01065	NICKEL, DISSOLVED UG-L AS NI	1	3.00	3.00									
01080	STRONTIUM, DISSOLVED UG-L AS SR	1	610.00	610.00									
01085	VANADIUM, DISSOLVED UG-L AS V	1	6.50	6.50									
01090	ZINC, DISSOLVED UG-L AS ZN	1	20.00	20.00									
01106	ALUMINUM, DISSOLVED UG-L AS AL	1	10.00	10.00									
01130	LITHIUM, DISSOLVED UG-L AS LI	1	10.00	10.00									
01145	SELENIUM, DISSOLVED UG-L AS SE	1	2.00	2.00									
70301	DISSOLVED SOLIDS SUM OF CONSTITUENTS	1	346.00	346.00									
70303	DISSOLVED SOLIDS TONS PER ACRE-FOOT	1	0.47	0.47									
71846	NITROGEN, AMMONIA DISS MG-L AS NH4	1	1.10	1.10									
71870	BROMIDE MG-L	1	0.10	0.10									
71890	MERCURY DISSOLVED UG-L AS HG	1	1.00	1.00									

END OF STATION 09306237 REPORTING PERIOD IS 10-05-77 THRU 10-05-77

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM

STATION 09306235

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00010&	TEMPERATURE, WATER DEG. C	10	30.00	2.50	15.37	10.34	22.65	8.09	8.39	15.37	22.35	28.62	32.37
00061	DISCHARGE, INSTANTANEOUS CFS	10	0.44	0.09	0.20	1.47	0.27	0.16	0.16	0.20	0.26	0.33	0.38
00070	TURBIDITY JTU	1	2.00	2.00									
00080*	COLOR PLATINUM - COBALT UNITS	6	25.00	3.00	4.88	2.29	11.15	2.14	2.79	4.88	8.53	14.09	19.02
00095*	CONDUCTIVITY UMHOS AT 25 DEG C	7	1100.00	260.00	862.65	1.70	1385.52	537.10	603.17	862.65	1233.74	1702.00	2063.13
00300*	DISSOLVED OXYGEN MG-L	6	10.30	6.80	8.25	1.15	9.47	7.19	7.52	8.25	9.06	9.85	10.36
00310*	BOD, 5 DAY MG-L	3	2.68	0.70	1.14	2.10	4.45	0.29	0.69	1.14	1.89	2.95	3.86
00340*	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	3	170.00	5.00	26.13	5.89	679.31	1.01	7.90	26.13	86.51	253.83	483.17
00400&	PH STANDARD UNITS	7	8.30	7.30	7.91	0.33	8.21	7.62	7.69	7.91	8.14	8.34	8.46
00405*	CARBON DIOXIDE MG-L AS CO2	6	31.00	2.90	7.68	2.40	18.39	3.21	4.26	7.68	13.85	23.55	32.33
00410*	ALKALINITY, TOTAL MG-L AS CACO3	7	350.00	110.00	268.83	1.50	385.59	187.43	204.73	268.83	352.99	450.96	522.09
00440*	BICARBONATE ION MG-L AS HCO3	7	430.00	140.00	330.10	1.48	467.23	233.21	253.92	330.10	429.13	543.31	625.64
00445*	CARBONATE ION MG-L AS CO3	7	1.00	1.00	1.00	1.00							
00550*	OIL-GREASE, TOTAL MG-L	3	8.00	1.00	2.00	3.32	18.15	0.22	0.89	2.00	4.50	9.32	14.41
00607*	DISSOLVED ORGANIC NITROGEN MG-L AS N	6	0.79	0.30	0.51	1.42	0.72	0.36	0.40	0.51	0.64	0.80	0.91
00608*	NITROGEN, AMMONIA, DISSOLVED MG-L AS N	6	0.05	0.01	0.02	1.98	0.03	0.01	0.01	0.02	0.03	0.04	0.05
00623*	DISS KJELDAHL NITROGEN MG-L AS N	6	0.84	0.30	0.52	1.44	0.76	0.36	0.41	0.52	0.67	0.84	0.96

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00631* NITROGEN, NO2 NO3, DISS MG-L AS N	6	1.90	0.28	0.77	1.92	1.46	0.40	0.49	0.77	1.19	1.76	2.23
00650* PHOSPHATE, TOTAL MG-L AS PO4	6	2.90	0.01	0.12	8.20	0.97	0.01	0.03	0.12	0.49	1.75	3.76
00660* PHOSPHATE, DISSOLVED ORTHO MG-L AS PO4	6	0.06	0.01	0.03	1.78	0.05	0.02	0.02	0.03	0.04	0.06	0.07
00665* PHOSPHORUS, TOTAL MG-L AS P	6	0.96	0.01	0.05	6.52	0.30	0.01	0.01	0.05	0.17	0.52	1.02
00671* ORTHOPHOSPHATE, DISS MG-L AS P	6	0.02	0.01	0.01	1.33	0.01	0.01	0.01	0.01	0.01	0.02	0.02
00681* CARBON, ORGANIC, DISS MG-L AS C	8	22.00	6.50	9.36	1.57	13.49	6.50	6.92	9.36	12.67	16.63	19.57
00689* CARBON, ORGANIC, SUSP MG-L AS C	5	4.00	0.10	0.48	5.58	3.46	0.07	0.15	0.48	1.53	4.34	8.09
00720* CYANIDE MG-L AS CN	3	0.01	0.01	0.01	1.49	0.02	0.00	0.01	0.01	0.01	0.01	0.02
00746* SULFIDE, DISSOLVED MG-L AS S	2	0.60	0.50	0.55	1.14	0.81	0.37	0.50	0.55	0.60	0.65	0.68
00900* HARDNESS, TOTAL MG-L AS CACO3	8	500.00	140.00	388.80	1.52	548.05	275.82	292.61	388.80	516.61	667.07	777.24
00902* HARDNESS AS CACO3 NONCARBONATE MG-L	7	150.00	27.00	104.62	1.83	179.54	60.96	69.58	104.62	157.30	226.99	282.66
00915* CALCIUM, DISSOLVED MG-L AS CA	8	99.00	32.00	72.12	1.45	97.56	53.32	56.16	72.12	92.62	115.97	132.67
00925* MAGNESIUM, DISSOLVED MG-L AS MG	8	62.00	15.00	49.81	1.63	74.00	33.52	35.89	49.81	69.13	92.82	110.72
00930* SODIUM, DISSOLVED MG-L AS NA	8	99.00	22.00	75.04	1.65	112.73	49.95	53.57	75.04	105.11	142.31	170.58
00931* SODIUM ADSORPTION RATIO	8	2.10	0.80	1.67	1.36	2.14	1.30	1.35	1.67	2.05	2.47	2.77
00932* SODIUM, PERCENT	8	35.00	25.00	29.47	1.12	32.24	26.93	27.35	29.47	31.74	33.94	35.33
00935* POTASSIUM, DISSOLVED MG-L AS K	8	2.80	1.30	1.86	1.29	2.29	1.50	1.56	1.86	2.21	2.58	2.84

STATION 09306235

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00940* CHLORIDE, DISSOLVED MG-L AS CL	8	9.80	3.80	7.52	1.35	9.59	5.89	6.15	7.52	9.20	11.03	12.29
00945* SULFATE, DISSOLVED												

STATION 09306235

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
80155* SEDIMENT DISCHARGE, SUSP TONS-DAY	2	0.53	0.19	0.32	2.07	2.88	0.03	0.19	0.32	0.52	0.80	1.05

END OF STATION 09306235 REPORTING PERIOD IS 06-24-76 THRU 09-26-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM

STATION 09306242

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
80155 SEDIMENT DISCHARGE, SUSP TONS-DAY	1	8.50	8.50									

END OF STATION 09306242 REPORTING PERIOD IS 06-25-76 THRU 10-24-78

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* -- ESTIMATE USING METHOD OF MOMENTS

& -- NO LOG TRANSFORM

APPENDIX 5-2
RBOSC GROUNDWATER DATA

APPENDIX 5-2.1
ALLUVIAL WELL WATER QUALITY SUMMARIES

Summary of Water Quality Data Collected at G-S S7, October 1977-June 1978

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CORE-HOLE GS-S7 AQUIFER A METHOD 3 WET SAMPLES

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003& SAMPLE DEPTH, FEET	3	30.39	23.26	26.42	3.63	33.10	19.75	23.97	26.42	28.88	31.08	32.40
00011& TEMPERATURE, WATER DEG. F	2	49.10	45.50	47.30	2.55	55.05	39.55	45.58	47.30	49.02	50.56	51.49
00095* CONDUCTIVITY UMHOS AT 25 DEG C	2	1390.00	1120.00	1247.71	1.16	1985.26	784.17	1125.56	1247.71	1383.13	1517.40	1603.85
00340* CHEMICAL OXYGEN DEMAND, .25 N K2CR07	2	30.00	0.01	0.55	287.54579669.00		0.00	0.01	0.55	25.01	777.33	6068.92
00400& PH STANDARD UNITS	3	8.00	6.80	7.30	0.62	8.45	6.15	6.88	7.30	7.72	8.10	8.33
00410* ALKALINITY, TOTAL MG-L AS CACO3	4	400.00	355.00	374.62	1.05	402.36	348.79	361.83	374.62	387.86	400.17	407.72
00440* BICARBONATE ION MG-L AS HCO3	3	490.00	435.00	462.78	1.06	516.28	414.83	444.55	462.78	481.76	499.50	510.41
00445* CARBONATE ION MG-L AS CO3	4	0.10	0.10	0.10	1.00							
00540* DISSOLVED SOLIDS ROE AT 178 DEG C, M	2	775.00	745.00	759.85	1.03	826.72	698.38	745.76	759.85	774.20	787.34	795.30
00613* NITROGEN, NITRITE, DISSOLVED MG-L AS N	3	0.01	0.01	0.01	1.00							
00681* CARBON, ORGANIC, DISS MG-L AS C	3	22.00	6.00	11.82	1.92	39.11	3.57	7.61	11.82	18.34	27.24	34.51
00720* CYANIDE MG-L AS CN	2	0.01	0.01	0.01	1.00							
00746* SULFIDE, DISSOLVED MG-L AS S	2	1.00	0.01	0.10	25.95							
00915* CALCIUM, DISSOLVED MG-L AS CA	4	105.00	52.00	88.08	1.42	143.44	54.09	69.49	88.08	111.66	138.20	157.00
00925* MAGNESIUM, DISSOLVED MG-L AS MG	4	57.00	19.00	31.42	1.61	60.80	16.24	22.79	31.42	43.31	57.81	68.70
00930* SODIUM, DISSOLVED MG-L AS NA	4	200.00	105.00	157.90	1.33	235.25	105.98	130.07	157.90	191.68	228.20	253.28
00935* POTASSIUM, DISSOLVED MG-L AS K	4	2.00	0.20	0.97	2.91	4.27	0.22	0.47	0.97	1.99	3.81	5.61

TABLE 5-14 (Continued)

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CORE-HOLE GS-S7 AQUIFER A METHOD 3 WET SAMPLES

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00940* CHLORIDE, DISSOLVED MG-L AS CL	4	90.00	2.70	12.75	4.27	95.55	1.70	4.79	12.75	33.96	81.93	138.72
00945* SULFATE, DISSOLVED MG-L AS SO4	4	325.00	270.00	291.82	1.08	325.10	261.95	276.89	291.82	307.56	322.43	331.67
00950* FLUORIDE, TOTAL MG-L AS F	4	0.40	0.20	0.24	1.41	0.38	0.15	0.19	0.24	0.30	0.37	0.42
00955* SILICA, DISSOLVED MG-L AS SIO2	4	23.00	9.60	12.48	1.51	22.10	7.05	9.46	12.48	16.48	21.15	24.56
01000* ARSENIC, DISSOLVED UG-L AS AS	2	10.00	10.00	10.00	1.00							
01010 BERYLLIUM, DISSOLVED UG-L AS BE	1	100.00	100.00									
01020* BORON, DISSOLVED UG-L AS B	2	100.00	100.00	100.00	1.00							
01025* CADMIUM, DISSOLVED UG-L AS CD	2	10.00	10.00	10.00	1.00							
01030* CHROMIUM, DISSOLVED UG-L AS CR	2	10.00	10.00	10.00	1.00							
01046* IRON, DISSOLVED UG-L AS FE	2	50.00	50.00	50.00	1.00							
01049* LEAD, DISSOLVED UG-L AS PB	2	20.00	10.00	14.14	1.63	62.83	3.18	10.16	14.14	19.69	26.51	31.67
01080* STRONTIUM, DISSOLVED UG-L AS SR	2	1200.00	100.00	346.41	5.80	72684.63	1.65	105.80	346.41	1134.17	3295.15	6235.61
01090* ZINC, DISSOLVED UG-L AS ZN	2	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
01106* ALUMINUM, DISSOLVED UG-L AS AL	2	200.00	100.00	141.42	1.63	628.33	31.83	101.59	141.42	196.88	265.10	316.72
01145* SELENIUM, DISSOLVED UG-L AS SE	2	10.00	10.00	10.00	1.00							
01503* GROSS ALPHA, DISSOLVED PC-L	2	40.00	2.50	10.00	7.10	3896.38	0.03	2.66	10.00	37.56	123.47	251.55
03501 GROSS BETA, DISSOLVED PC-L	1	44.00	44.00									

CORE-HOLE GS-S7 AQUIFER A METHOD 3 WET SAMPLES

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
32730 PHENOLS UG-L	1	4.00	4.00									
70507* PHOSPHORUS, TOTAL ORTHO MG-L AS P	2	0.10	0.10	0.10	1.00							
71846* NITROGEN, AMMONIA DISS MG-L AS NH4	2	1.40	0.35	0.70	2.67	13.82	0.04	0.36	0.70	1.36	2.46	3.51
71851* NITROGEN, NITRATE DISS MG-L AS NO3	3	3.30	2.20	2.70	1.22	3.91	1.86	2.35	2.70	3.09	3.50	3.76
71870 BROMIDE MG-L	1	0.10	0.10									
71890* MERCURY DISSOLVED UG-L AS HG	2	1.00	1.00	1.00	1.00							

END OF CORE-HOLE GS-S7 AQUIFER A METHOD 3 WET SAMPLES REPORTING PERIOD IS 10-13-77 THRU 6-13-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

CORE-HOLE GS-S7 AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003&	SAMPLE DEPTH, FEET	3	30.39	23.26	26.42	3.63	33.10	19.75	23.97	26.42	28.88	31.08	32.40
00011&	TEMPERATURE, WATER DEG. F	2	49.10	45.50	47.30	2.55	55.05	39.55	45.58	47.30	49.02	50.56	51.49
01005	BARIUM, DISSOLVED UG-L AS BA	1	10.00	10.00									
01040*	COPPER, DISSOLVED UG-L AS CU	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01056	MANGANESE, DISSOLVED UG-L AS MN	1	1.00	1.00									
01060*	MOLYBDENUM, DISS UG-L AS MO	2	20.00	1.00	4.47	8.32	2816.29	0.01	1.07	4.47	18.68	67.59	145.83
01080*	STRONTIUM, DISSOLVED UG-L AS SR	2	100.00	1.00	10.00	25.95	200908.06	0.00	1.11	10.00	90.07	650.16	2120.21
01130	LITHIUM, DISSOLVED UG-L AS LI	1	1.00	1.00									

END OF CORE-HOLE GS-S7 AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 10-13-77 THRU 6-13-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

Summary of Water Quality Data Collected at G-S S8, October 1977-September 1978

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CORE-HOLE GS-S8 AQUIFER A METHOD 3

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003&	SAMPLE DEPTH, FEET	3	43.22	35.15	39.46	4.06	46.92	31.99	36.71	39.46	42.20	44.66	46.14
00011&	TEMPERATURE, WATER DEG. F	3	47.30	33.80	42.50	7.55	56.37	28.63	37.41	42.50	47.59	52.18	54.92
00095*	CONDUCTIVITY UMHOS AT 25 DEG C	3	1060.00	990.00	1024.60	1.03	1089.94	963.17	1001.58	1024.60	1048.14	1069.77	1082.92
00340	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	1	30.00	30.00									
00400&	PH STANDARD UNITS	3	8.10	7.20	7.63	0.45	8.46	6.80	7.33	7.63	7.94	8.21	8.38
00410*	ALKALINITY, TOTAL MG-L AS CACO3	3	345.00	245.00	300.18	1.20	417.71	215.72	265.86	300.18	338.92	378.02	403.52
00440*	BICARBONATE ION MG-L AS HCO3	3	420.00	285.00	360.07	1.23	525.54	246.70	313.36	360.07	413.74	468.79	505.16
00445*	CARBONATE ION MG-L AS CO3	3	12.00	0.10	1.93	13.29	223.90	0.02	0.34	1.93	11.07	53.25	136.20
00540*	DISSOLVED SOLIDS ROE AT 178 DEG C, M	2	625.00	570.00	596.87	1.07	727.77	489.51	571.18	596.87	623.71	648.87	664.41
00613*	NITROGEN, NITRITE, DISSOLVED MG-L AS N	3	0.01	0.01	0.01	1.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
00681*	CARBON, ORGANIC, DISS MG-L AS C	2	14.00	12.00	12.96	1.12	18.06	9.30	12.04	12.96	13.95	14.91	15.51
00720*	CYANIDE MG-L AS CN	2	0.01	0.01	0.01	1.00							
00746*	SULFIDE, DISSOLVED MG-L AS S	2	1.00	0.20	0.45	3.12							
00915*	CALCIUM, DISSOLVED MG-L AS CA	3	82.00	49.00	66.74	1.31	110.11	40.46	55.53	66.74	80.22	94.65	104.50
00925*	MAGNESIUM, DISSOLVED MG-L AS MG	3	55.00	28.00	41.97	1.43	80.87	21.78	32.98	41.97	53.40	66.33	75.50
00930*	SODIUM, DISSOLVED MG-L AS NA	3	150.00	74.00	103.54	1.43	198.61	53.98	81.50	103.54	131.54	163.12	185.53
00935*	POTASSIUM, DISSOLVED MG-L AS K	3	3.00	1.70	2.17	1.34	3.71	1.27	1.78	2.17	2.64	3.16	3.51

CORE-HOLE GS-S8 AQUIFER A METHOD 3

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00940*	CHLORIDE, DISSOLVED MG-L AS CL	3	17.00	9.90	11.89	1.36	21.00	6.74	9.65	11.89	14.66	17.68	19.78
00945*	SULFATE, DISSOLVED MG-L AS SO4	3	250.00	185.00	206.36	1.18	280.24	151.95	184.41	206.36	230.92	255.49	271.41
00950*	FLUORIDE, TOTAL MG-L AS F	3	0.20	0.10	0.16	1.49	0.33	0.08	0.12	0.16	0.21	0.27	0.31
00955*	SILICA, DISSOLVED MG-L AS SIO2	3	19.50	9.80	12.37	1.48	25.52	5.99	9.48	12.37	16.14	20.50	23.66
01000*	ARSENIC, DISSOLVED UG-L AS AS	2	10.00	10.00	10.00	1.00							
01010	BERYLLIUM, DISSOLVED UG-L AS BE	1	100.00	100.00									
01020*	BORON, DISSOLVED UG-L AS B	2	200.00	100.00	141.42	1.63	628.33	31.83	101.59	141.42	196.88	265.10	316.72
01025*	CADMIUM, DISSOLVED UG-L AS CD	2	10.00	10.00	10.00	1.00							
01030*	CHROMIUM, DISSOLVED UG-L AS CR	2	10.00	10.00	10.00	1.00							
01046*	IRON, DISSOLVED UG-L AS FE	2	50.00	50.00	50.00	1.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
01049*	LEAD, DISSOLVED UG-L AS PB	2	30.00	10.00	17.32	2.17	184.11	1.63	10.25	17.32	29.26	46.89	62.16
01080*	STRONTIUM, DISSOLVED UG-L AS SR	2	1000.00	100.00	316.23	5.09	44822.67	2.23	105.37	316.23	949.06	2549.81	4604.56
01090*	ZINC, DISSOLVED UG-L AS ZN	2	100.00	100.00	100.00	1.00							
01106*	ALUMINUM, DISSOLVED UG-L AS AL	2	1000.00	100.00	316.23	5.09	44822.67	2.23	105.37	316.23	949.06	2549.81	4604.56
01145*	SELENIUM, DISSOLVED UG-L AS SE	2	10.00	10.00	10.00	1.00							
01503*	GROSS ALPHA, DISSOLVED PC-L	2	4.50	2.00	3.00	1.77	17.17	0.52	2.04	3.00	4.42	6.26	7.71
03501	GROSS BETA, DISSOLVED PC-L	1	19.00	19.00									

CORE-HOLE GS-S8 AQUIFER A METHOD 3 WET SAMPLES

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
32730	PHENOLS UG-L	1	1.00	1.00									
70507*	PHOSPHORUS, TOTAL ORTHO MG-L AS P	2	0.10	0.10	0.10	1.00							
71846	NITROGEN, AMMONIA DISS MG-L AS NH4	1	0.30	0.30									
71851*	NITROGEN, NITRATE DISS MG-L AS NO3	3	3.40	2.30	2.98	1.25	4.52	1.97	2.56	2.98	3.48	3.99	4.33
71870	BROMIDE MG-L	1	0.10	0.10									
71890*	MERCURY DISSOLVED UG-L AS HG	2	5.00	1.00	2.24	3.12	71.34	0.07	1.04	2.24	4.82	9.62	14.54

END OF CORE-HOLE GS-S8 AQUIFER A METHOD 3 WET SAMPLES REPORTING PERIOD IS 10-10-77 THRU 09-21-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

CORE-HOLE GS-S8 AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003&	SAMPLE DEPTH, FEET	3	43.22	35.15	39.46	4.06	46.92	31.99	36.71	39.46	42.20	44.66	46.14
00011&	TEMPERATURE, WATER DEG. F	3	47.30	33.80	42.50	7.55	56.37	28.63	37.41	42.50	47.59	52.18	54.92
01005	BARIUM, DISSOLVED UG-L AS BA	1	10.00	10.00									
01010	BERYLLIUM, DISSOLVED UG-L AS BE	1	100.00	100.00									
01040*	COPPER, DISSOLVED UG-L AS CU	2	10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49	25.50	46.05
01056	MANGANESE, DISSOLVED UG-L AS MN	1	100.00	100.00									
01060*	MOLYBDENUM, DISS UG-L AS MO	2	10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49	25.50	46.05
01065	NICKEL, DISSOLVED UG-L AS NI	1	1.00	1.00									
01080*	STRONTIUM, DISSOLVED UG-L AS SR	2	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
01085	VANADIUM, DISSOLVED UG-L AS V	1	1.00	1.00									
01130	LITHIUM, DISSOLVED UG-L AS LI	1	1.00	1.00									
01150	TITANIUM, DISSOLVED UG-L AS TI	1	500.00	500.00									

END OF CORE-HOLE GS-S8 AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 10-10-77 THRU 09-21-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

Summary of Water Quality Data Collected at G-S S11, October 1977-June 1978

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CORE-HOLE GS-S11D AQUIFER A METHOD 3 WET SAMPLES

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003& SAMPLE DEPTH, FEET	4	49.32	43.26	47.05	2.71	50.82	43.28	45.22	47.05	48.88	50.53	51.51
00011& TEMPERATURE, WATER DEG. F	4	59.72	49.10	52.43	4.92	59.25	45.61	49.11	52.43	55.75	58.73	60.52
00095* CONDUCTIVITY UMHOS AT 25 DEG C	3	1825.00	1624.99	1714.70	1.06	1908.51	1540.56	1648.54	1714.70	1783.50	1847.74	1887.25
00340* CHEMICAL OXYGEN DEMAND, .25 N K2CR07	2	30.00	25.00	27.39	1.14	40.54	18.50	25.10	27.39	29.88	32.31	33.85
00400& PH STANDARD UNITS	5	8.00	6.40	7.00	0.69	7.80	6.20	6.53	7.00	7.47	7.89	8.14
00410* ALKALINITY, TOTAL MG-L AS CACO3	4	535.00	415.00	480.49	1.11	556.88	414.58	447.22	480.49	516.23	550.64	572.30
00440* BICARBONATE ION MG-L AS HCO3	4	655.00	495.00	571.81	1.13	677.32	482.73	526.60	571.81	620.89	668.62	698.89
00445* CARBONATE ION MG-L AS CO3	5	24.00	0.10	0.78	16.82	20.02	0.03	0.12	0.78	5.24	29.07	80.99
00540* DISSOLVED SOLIDS ROE AT 178 DEG C, M	3	1250.00	1130.00	1182.29	1.05	1298.44	1076.52	1142.27	1182.29	1223.71	1262.19	1285.78
00613* NITROGEN, NITRITE, DISSOLVED MG-L AS N	3	0.01	0.01	0.01	1.00							
00660 PHOSPHATE, DISSOLVED ORTHO MG-L AS P04	1	0.10	0.10									
00681* CARBON, ORGANIC, DISS MG-L AS C	4	11.00	5.00	7.28	1.54	13.30	3.98	5.43	7.28	9.76	12.70	14.87
00720* CYANIDE MG-L AS CN	2	0.01	0.01	0.01	1.00							
00746* SULFIDE, DISSOLVED MG-L AS S	2	1.00	0.20	0.45	3.12							
00915* CALCIUM, DISSOLVED MG-L AS CA	5	105.00	64.00	88.19	1.23	111.49	69.75	76.85	88.19	101.20	114.54	123.34
00925* MAGNESIUM, DISSOLVED MG-L AS MG	5	125.00	92.00	101.73	1.13	117.53	88.06	93.47	101.73	110.73	119.50	125.07
00930* SODIUM, DISSOLVED MG-L AS NA	5	300.00	200.00	240.89	1.20	296.13	195.96	213.40	240.89	271.93	303.24	323.66

CORE-HOLE GS-S11D AQUIFER A METHOD 3

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00935* POTASSIUM, DISSOLVED MG-L AS K	5	3.70	1.70	2.54	1.33	3.51	1.83	2.10	2.54	3.07	3.65	4.04
00940* CHLORIDE, DISSOLVED MG-L AS CL	5	45.00	17.00	22.69	1.49	35.91	14.34	17.33	22.69	29.71	37.86	43.76
00945* SULFATE, DISSOLVED MG-L AS SO4	5	650.00	520.00	573.15	1.09	634.87	517.43	539.75	573.15	608.62	642.38	663.46
00950* FLUORIDE, TOTAL MG-L AS F	5	0.50	0.10	0.24	1.89	0.50	0.12	0.16	0.24	0.37	0.54	0.69
00955* SILICA, DISSOLVED MG-L AS SIO2	4	24.00	11.00	13.66	1.46	23.08	8.09	10.59	13.66	17.63	22.18	25.44
01000* ARSENIC, DISSOLVED UG-L AS AS	2	10.00	10.00	10.00	1.00							
01010 BERYLLIUM, DISSOLVED UG-L AS BE	1	100.00	100.00									
01020* BORON, DISSOLVED UG-L AS B	2	100.00	100.00	100.00	1.00							
01025* CADMIUM, DISSOLVED UG-L AS CD	2	10.00	10.00	10.00	1.00							
01030* CHROMIUM, DISSOLVED UG-L AS CR	2	10.00	10.00	10.00	1.00							
01046* IRON, DISSOLVED UG-L AS FE	2	50.00	50.00	50.00	1.00							
01049* LEAD, DISSOLVED UG-L AS PB	2	20.00	10.00	14.14	1.63	62.83	3.18	10.16	14.14	19.69	26.51	31.67
01080* STRONTIUM, DISSOLVED UG-L AS SR	2	1799.99	100.00	424.26	7.72212	988.69	0.85	106.78	424.26	1685.67	5828.46	12239.32
01090* ZINC, DISSOLVED UG-L AS ZN	2	100.00	100.00	100.00	1.00							
01106* ALUMINUM, DISSOLVED UG-L AS AL	2	100.00	100.00	100.00	1.00							
01145* SELENIUM, DISSOLVED UG-L AS SE	2	10.00	10.00	10.00	1.00							
01503 GROSS ALPHA, DISSOLVED PC-L	1	8.60	8.60									

CORE-HOLE GS-S11D AQUIFER A METHOD 3 WET SAMPLES

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
03501	GROSS BETA, DISSOLVED PC-L	1	23.00	23.00									
32730	PHENOLS UG-L	1	14.00	14.00									
70507*	PHOSPHORUS, TOTAL ORTHO MG-L AS P	3	0.10	0.10	0.10	1.00							
71846*	NITROGEN, AMMONIA DISS MG-L AS NH4	2	0.30	0.15	0.21	1.63	0.94	0.05	0.15	0.21	0.30	0.40	0.48
71851*	NITROGEN, NITRATE DISS MG-L AS NO3	4	9.60	0.20	2.46	5.71	27.66	0.22	0.76	2.46	7.99	23.00	43.28
71870	BROMIDE MG-L	1	0.10	0.10									
71890*	MERCURY DISSOLVED UG-L AS HG	2	1.00	1.00	1.00	1.00							

END OF CORE-HOLE GS-S11D AQUIFER A METHOD 3 WET SAMPLES REPORTING PERIOD IS 10-10-77 THRU 6-13-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

CORE-HOLE GS-S11D AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003& SAMPLE DEPTH, FEET	4	49.32	43.26	47.05	2.71	50.82	43.28	45.22	47.05	48.88	50.53	51.51
00011& TEMPERATURE, WATER DEG. F	4	59.72	49.10	52.43	4.92	59.25	45.61	49.11	52.43	55.75	58.73	60.52
01010 BERYLLIUM, DISSOLVED UG-L AS BE	1	100.00	100.00									
01040* COPPER, DISSOLVED UG-L AS CU	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01056* MANGANESE, DISSOLVED UG-L AS MN	2	20.00	1.00	4.47	8.32	2816.29	0.01	1.07	4.47	18.68	67.59	145.83
01060* MOLYBDENUM, DISS UG-L AS MO	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01130* LITHIUM, DISSOLVED UG-L AS LI	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

END OF CORE-HOLE GS-S11D AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 10-10-77 THRU 6-13-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

Summary of Water Quality Data Collected at G-S S7, G-S S8, and G-S S11, October 1977-October 1978

H20QASA-2 REPORT DATE 01-17-79 PAGE 2

AQUIFER A

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003& SAMPLE DEPTH, FEET	10	49.32	23.26	38.58	9.51	45.28	31.88	32.16	38.58	45.00	50.78	54.23
00011& TEMPERATURE, WATER DEG. F	9	59.72	33.80	47.98	6.74	53.06	42.90	43.43	47.98	52.53	56.62	59.06
00095* CONDUCTIVITY UMHOS AT 25 DEG C	8	1825.00	990.00	1305.59	1.28	1600.15	1065.24	1103.20	1305.59	1545.10	1797.80	1968.25
00340* CHEMICAL OXYGEN DEMAND, .25 N K2CR07	5	30.00	0.01	5.83	35.20	349.99	0.10	0.53	5.83	64.53	560.44	2041.37
00400& PH STANDARD UNITS	11	8.10	6.40	7.25	0.62	7.67	6.84	6.83	7.25	7.67	8.05	8.28
00410* ALKALINITY, TOTAL MG-L AS CACO3	11	535.00	245.00	386.06	1.25	447.34	333.18	332.34	386.06	448.47	513.16	556.22
00440* BICARBONATE ION MG-L AS HCO3	10	655.00	285.00	467.12	1.27	551.89	395.36	398.14	467.12	548.05	632.73	689.50
00445* CARBONATE ION MG-L AS CO3	12	24.00	0.10	0.49	10.76	2.20	0.11	0.10	0.49	2.45	10.37	24.56
00540* DISSOLVED SOLIDS ROE AT 178 DEG C, M	7	1250.00	570.00	857.14	1.38	1140.12	644.40	691.03	857.14	1063.19	1290.47	1448.97
00613* NITROGEN, NITRITE, DISSOLVED MG-L AS N	9	0.01	0.01	0.01	1.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
00660 PHOSPHATE, DISSOLVED ORTHO MG-L AS P04	1	0.10	0.10									
00681* CARBON, ORGANIC, DISS MG-L AS C	9	22.00	5.00	9.72	1.66	14.23	6.64	6.91	9.72	13.68	18.58	22.33
00720* CYANIDE MG-L AS CN	6	0.01	0.01	0.01	1.00							
00746* SULFIDE, DISSOLVED MG-L AS S	6	1.00	0.01	0.27	6.04							
00915* CALCIUM, DISSOLVED MG-L AS CA	12	105.00	49.00	82.22	1.32	98.03	68.96	68.08	82.22	99.30	117.66	130.23
00925* MAGNESIUM, DISSOLVED MG-L AS MG	12	125.00	19.00	55.11	1.88	81.89	37.09	36.03	55.11	84.30	123.54	155.27
00930* SODIUM, DISSOLVED MG-L AS NA	12	300.00	74.00	169.43	1.53	221.48	129.61	127.10	169.43	225.86	292.49	341.39

AQUIFER A

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00935* POTASSIUM, DISSOLVED MG-L AS K	12	3.70	0.20	1.77	2.11	2.83	1.11	1.07	1.77	2.93	4.61	6.05
00940* CHLORIDE, DISSOLVED MG-L AS CL	12	90.00	2.70	15.93	2.37	27.45	9.25	8.89	15.93	28.56	48.28	66.07
00945* SULFATE, DISSOLVED MG-L AS SO4	12	650.00	185.00	354.52	1.58	472.39	266.06	260.53	354.52	482.40	636.36	751.00
00950* FLUORIDE, TOTAL MG-L AS F	12	0.50	0.10	0.22	1.64	0.29	0.16	0.15	0.22	0.30	0.41	0.49
00955* SILICA, DISSOLVED MG-L AS SIO2	11	24.00	9.60	12.87	1.43	16.30	10.16	10.12	12.87	16.37	20.32	23.12
01000* ARSENIC, DISSOLVED UG-L AS AS	6	10.00	10.00	10.00	1.00							
01010* BERYLLIUM, DISSOLVED UG-L AS BE	3	100.00	100.00	100.00	1.00							
01020* BORON, DISSOLVED UG-L AS B	6	200.00	100.00	112.25	1.33	148.91	84.61	92.73	112.25	135.87	161.32	178.77
01025* CADMIUM, DISSOLVED UG-L AS CD	6	10.00	10.00	10.00	1.00							
01030* CHROMIUM, DISSOLVED UG-L AS CR	6	10.00	10.00	10.00	1.00							
01046* IRON, DISSOLVED UG-L AS FE	6	50.00	50.00	50.00	1.00							
01049* LEAD, DISSOLVED UG-L AS PB	6	30.00	10.00	15.13	1.61	24.37	9.39	10.96	15.13	20.88	27.90	33.17
01080* STRONTIUM, DISSOLVED UG-L AS SR	6	1799.99	100.00	359.53	4.11	1477.34	87.50	138.37	359.53	934.19	2204.73	3684.42
01090* ZINC, DISSOLVED UG-L AS ZN	6	100.00	100.00	100.00	1.00	100.49	99.51	99.67	100.00	100.33	100.63	100.81
01106* ALUMINUM, DISSOLVED UG-L AS AL	6	1000.00	100.00	164.75	2.52	415.47	65.33	88.19	164.75	307.79	539.94	755.63
01145* SELENIUM, DISSOLVED UG-L AS SE	6	10.00	10.00	10.00	1.00							
01503* GROSS ALPHA, DISSOLVED PC-L	5	40.00	2.00	5.99	3.33	23.89	1.50	2.66	5.99	13.50	28.01	43.34

AQUIFER A

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
03501* GROSS BETA, DISSOLVED PC-L	3	44.00	19.00	26.79	1.55	60.14	11.93	19.90	26.79	36.06	47.10	55.26
32730* PHENOLS UG-L	3	14.00	1.00	3.83	3.74	43.25	0.34	1.57	3.83	9.33	20.78	33.56
70507* PHOSPHORUS, TOTAL ORTHO MG-L AS P	7	0.10	0.10	0.10	1.00							
71846* NITROGEN, AMMONIA DISS MG-L AS NH4	5	1.40	0.15	0.37	2.27	0.94	0.14	0.21	0.37	0.64	1.05	1.41
71851* NITROGEN, NITRATE DISS MG-L AS NO3	10	9.60	0.20	2.68	2.77	5.50	1.31	1.35	2.68	5.34	9.91	14.34
71870* BROMIDE MG-L	3	0.10	0.10	0.10	1.00							
71890* MERCURY DISSOLVED UG-L AS HG	6	5.00	1.00	1.31	1.93	2.52	0.68	0.84	1.31	2.04	3.04	3.85

END OF AQUIFER A WET SAMPLES REPORTING PERIOD IS 10-10-77 THRU 09-21-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

AQUIFER A

SPECTROGRAPHIC SAMPLES

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003& SAMPLE DEPTH, FEET	10	49.32	23.26	38.58	9.51	45.28	31.88	32.16	38.58	45.00	50.78	54.23
00011& TEMPERATURE, WATER DEG. F	9	59.72	33.80	47.98	6.74	53.06	42.90	43.43	47.98	52.53	56.62	59.06
01005* BARIUM, DISSOLVED UG-L AS BA	2	10.00	10.00	10.00	1.00	10.07	9.93	9.98	10.00	10.02	10.03	10.04
01010* BERYLLIUM, DISSOLVED UG-L AS BE	2	100.00	100.00	100.00	1.00							
01040* COPPER, DISSOLVED UG-L AS CU	6	10.00	1.00	1.47	2.56	3.75	0.57	0.78	1.47	2.77	4.90	6.89
01056* MANGANESE, DISSOLVED UG-L AS MN	4	100.00	1.00	6.69	9.88	160.67	0.28	1.42	6.69	31.38	126.04	289.46
01060* MOLYBDENUM, DISS UG-L AS MO	6	20.00	1.00	2.42	4.00	9.65	0.61	0.95	2.42	6.16	14.29	23.62
01065 NICKEL, DISSOLVED UG-L AS NI	1	1.00	1.00									
01080* STRONTIUM, DISSOLVED UG-L AS SR	4	100.00	1.00	31.62	10.00	772.68	1.29	6.68	31.62	149.62	605.34	1396.36
01085 VANADIUM, DISSOLVED UG-L AS V	1	1.00	1.00									
01130* LITHIUM, DISSOLVED UG-L AS LI	4	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01150 TITANIUM, DISSOLVED UG-L AS TI	1	500.00	500.00									

END OF AQUIFER A SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 10-10-77 THRU 09-21-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

APPENDIX 5-2.2
ALLUVIAL WELL WATER QUALITY INDIVIDUAL ANALYSES

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S7 PAGE 1

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES		1	2	3	4	5	6
DATE		20177	101377	11078	40578	61378	92178
DEPTH		0.0	0.0	30.39	25.62	23.26	0.0
TEMP		0.0	0.0	7.5	0.0	9.5	0.0
LAB ID							
LAB NUM		0	0	0	0	0	0
METHOD		03	3	3	3	3	03
AQUIF.LOC.		A	A	A	A	A	A
WET							
01106	ALUM	0.200	0.200	0.0	0.0	0.100	0.0
71846	AMMO	0.0	0.350	0.0	0.0	1.400	0.0
01000	ARSE	0.0	-0.010	0.0	0.0	-0.010	0.0
00440	BICA	510.000	490.000	0.0	435.000	465.000	440.000
01025	CADM	-0.010	-0.010	0.0	0.0	-0.010	0.0
00915	CALC	105.000	105.000	105.000	52.000	105.000	93.000
00445	CARB	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
00940	CHLO	9.300	9.900	90.000	2.700	11.000	17.000
01030	CHRO	-0.010	-0.010	0.0	0.0	-0.010	0.0
01040	COPP	-0.100	0.0	0.0	0.0	0.0	0.0
00950	FLUO	0.200	0.200	0.200	0.400	0.200	0.200
71830	HYDR	0.0	0.0	0.0	0.0	0.0	0.0
01046	IRON	-0.050	-0.050	0.0	0.0	-0.050	0.0
01049	LEAD	0.020	0.020	0.0	0.0	-0.010	0.0
00925	MAGN	41.000	19.000	36.000	57.000	25.000	61.000
71890	MERC	-0.001	-0.001	0.0	0.0	-0.001	0.0
71851	NITR	3.000	2.200	0.0	2.700	3.300	3.400
70507	PHOS	-0.100	-0.100	0.0	0.0	-0.100	0.0
00935	POTA	2.000	1.300	0.200	1.700	2.000	2.000
01145	SELE	-0.010	-0.010	0.0	0.0	-0.010	0.0
00955	SIL	29.000	11.000	23.000	9.600	10.000	21.400
00930	SODI	160.000	185.000	105.000	160.000	200.000	97.000
00945	SULF	300.000	290.000	285.000	325.000	270.000	260.000
00746	SULF	1.600	-1.000	0.0	0.0	-0.010	0.0
01090	ZINC	-0.100	0.100	0.0	0.0	0.100	0.0
01503	GROS	0.0	2.500	0.0	0.0	40.000	0.0
03501	GROS	0.0	0.0	0.0	0.0	44.000	0.0
00900	HARD	430.000	0.0	0.0	0.0	0.0	0.0
00400	PH	1200 0.0	8.000	6.800	0.0	7.100	7.600
00095	COND	~~860.000~~	0.0	1120.000	0.0	1390.000	1060.000
00540	DIS	560 -0.050	745.000	0.0	0.0	775.000	0.0
01056	MANG	0.0	0.0	0.0	0.0	0.0	0.0
00410	ALKA	419.000	400.000	365.000	355.000	380.000	360.000
00720	CYAN	-0.010	-0.010	0.0	0.0	-0.010	0.0
01020	BORO	0.100	-0.100	0.0	0.0	-0.100	0.0
01005	BARI	0.0	0.0	0.0	0.0	0.0	0.0
01075	SILV	0.0	0.0	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0	0.0	0.0	0.0
01130	LITH	-0.100	0.0	0.0	0.0	0.0	0.0
00681	DOC	5.500	6.000	0.0	12.500	22.000	0.0
00613	NITR	0.040	-0.010	0.0	-0.010	-0.010	-0.010
71870	BROM	-0.100	0.0	0.0	0.0	-0.100	0.0

SAMPLES		1	2	3	4	5	6
00340	C.O.	6.900	-0.010	0.0	0.0	30.000	0.0

32730	PHEN	-0.001	0.004	0.0	0.0	0.0	-0.001
00625	KJEL	3.400	0.0	0.0	0.0	0.0	0.0
01010	BERY	0.0	-0.100	0.0	0.0	0.0	0.0
01060	MOLY	-0.100	0.0	0.0	0.0	0.0	0.0
01080	STRO	1.800	-0.100	0.0	0.0	1.200	0.0
01085	VANA	-0.100	0.0	0.0	0.0	0.0	0.0
00660	ORTH	0.200	0.0	0.0	0.0	0.0	0.0
00608	AMMO	0.0	0.0	0.0	0.0	0.0	0.0
00681	DIS-	0.0	0.0	0.0	0.0	0.0	0.0
38260	MBAS	0.0	0.0	0.0	0.0	0.0	0.0
31501	TOT	0.0	0.0	0.0	0.0	0.0	0.0
31615	FEC	0.0	0.0	0.0	0.0	0.0	0.0
00310	5-DA	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC							
01006	ALUM	0.050	0.0	0.0	0.0	0.0	0.0
01095	ANTI	0.0	0.0	0.0	0.0	0.0	0.0
01000	ARSE	0.0	0.0	0.0	0.0	0.0	0.0
01005	BARI	0.010	0.010	0.0	0.0	0.0	0.0
01010	BERY	0.0	0.0	0.0	0.0	0.0	0.0
01015	BISM	0.0	0.0	0.0	0.0	0.0	0.0
01020	BORO	0.500	0.0	0.0	0.0	0.0	0.0
01025	CADM	0.0	0.0	0.0	0.0	0.0	0.0
00915	CALC	99999.000	0.0	0.0	0.0	0.0	0.0
	CERI	0.0	0.0	0.0	0.0	0.0	0.0
	CESI	0.0	0.0	0.0	0.0	0.0	0.0
01030	CHRO	0.0	0.0	0.0	0.0	0.0	0.0
01035	COBO	0.0	0.0	0.0	0.0	0.0	0.0
	COLU	0.0	0.0	0.0	0.0	0.0	0.0
01040	COPP	0.001	0.001	0.0	0.0	0.001	0.0
	DYSP	0.0	0.0	0.0	0.0	0.0	0.0
	ERBI	0.0	0.0	0.0	0.0	0.0	0.0
	EURO	0.0	0.0	0.0	0.0	0.0	0.0
	GADO	0.0	0.0	0.0	0.0	0.0	0.0
01120	GALL	0.0	0.0	0.0	0.0	0.0	0.0
01125	GERM	0.0	0.0	0.0	0.0	0.0	0.0
	GOLD	0.0	0.0	0.0	0.0	0.0	0.0
	HAFN	0.0	0.0	0.0	0.0	0.0	0.0
	HOLM	0.0	0.0	0.0	0.0	0.0	0.0
	INDI	0.0	0.0	0.0	0.0	0.0	0.0
	IRID	0.0	0.0	0.0	0.0	0.0	0.0
01046	IRON	0.001	0.0	0.0	0.0	0.0	0.0
	LANT	0.0	0.0	0.0	0.0	0.0	0.0
01049	LEAD	0.0	0.0	0.0	0.0	0.0	0.0
01130	LITH	0.001	0.001	0.0	0.0	0.0	0.0
	LUTE	0.0	0.0	0.0	0.0	0.0	0.0
00925	MAGN	99999.000	0.0	0.0	0.0	0.0	0.0
01056	MANG	0.001	0.001	0.0	0.0	0.0	0.0
71890	MERC	0.0	0.0	0.0	0.0	0.0	0.0
01060	MOLY	0.010	0.001	0.0	0.0	0.020	0.0
	NEOD	0.0	0.0	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0	0.0	0.0	0.0
	OSMI	0.0	0.0	0.0	0.0	0.0	0.0
	PALL	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES		1	2	3	4	5	6
	PLAT	0.0	0.0	0.0	0.0	0.0	0.0
00935	POTA	0.100	0.0	0.0	0.0	0.0	0.0
	PRAS	0.0	0.0	0.0	0.0	0.0	0.0
09902	RADI	0.0	0.0	0.0	0.0	0.0	0.0

	RHEN	0.0	0.0	0.0	0.0	0.0	0.0
	RHOD	0.0	0.0	0.0	0.0	0.0	0.0
01135	RUBI	0.0	0.0	0.0	0.0	0.0	0.0
	RUTH	0.0	0.0	0.0	0.0	0.0	0.0
	SAMA	0.0	0.0	0.0	0.0	0.0	0.0
	SCAN	0.0	0.0	0.0	0.0	0.0	0.0
01145	SELE	0.0	0.0	0.0	0.0	0.0	0.0
00955	SILI	5.000	0.0	0.0	0.0	0.0	0.0
01075	SILV	0.001	0.0	0.0	0.0	0.0	0.0
00930	SODI	10.000	0.0	0.0	0.0	0.0	0.0
01080	STRO	0.100	0.100	0.0	0.0	0.001	0.0
	TANT	0.0	0.0	0.0	0.0	0.0	0.0
	TERB	0.0	0.0	0.0	0.0	0.0	0.0
	THAL	0.0	0.0	0.0	0.0	0.0	0.0
	THOR	0.0	0.0	0.0	0.0	0.0	0.0
	THUL	0.0	0.0	0.0	0.0	0.0	0.0
01100	TIN	0.0	0.0	0.0	0.0	0.0	0.0
01150	TITA	0.0	0.0	0.0	0.0	0.0	0.0
	TUNG	0.0	0.0	0.0	0.0	0.0	0.0
22703	URAN	0.0	0.0	0.0	0.0	0.0	0.0
01085	VANA	0.0	0.0	0.0	0.0	0.0	0.0
	YTTE	0.0	0.0	0.0	0.0	0.0	0.0
	YTTR	0.0	0.0	0.0	0.0	0.0	0.0
01090	ZINC	0.0	0.0	0.0	0.0	0.0	0.0
01160	ZIRC	0.0	0.0	0.0	0.0	0.0	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S8 PAGE 4

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES		1	2	3	4
DATE		20177	101077	61478	92178
DEPTH		0.0	43.22	35.15	40.00
TEMP		0.0	8.0	10.0	8.5
LAB ID					
LAB NUM		0	0	0	0
METHOD		03	3	3	3
AQUIF.LOC.		A	A	A	A
WET					
01106	ALUM	0.200	1.000	0.100	0.0
71846	AMMO	0.0	0.0	-0.300	0.0
01000	ARSE	0.0	-0.010	-0.010	0.0
00440	BICA	435.000	420.000	285.000	390.000
01025	CADM	-0.010	-0.010	-0.010	0.0
00915	CALC	90.000	74.000	49.000	82.000
00445	CARB	-0.100	-0.100	12.000	6.000
00940	CHLO	9.300	9.900	10.000	17.000
01030	CHRO	-0.010	-0.010	-0.010	0.0
01040	COPP	-0.100	0.0	0.0	0.0
00950	FLUO	0.200	0.200	0.100	0.200
71830	HYDR	0.0	0.0	0.0	0.0
01046	IRON	-0.050	0.050	-0.050	0.0
01049	LEAD	0.010	0.030	-0.010	0.0
00925	MAGN	27.000	28.000	48.000	55.000
71890	MERC	-0.001	-0.001	0.005	0.0
71851	NITR	3.400	3.400	2.300	3.400
70507	PHOS	-0.100	0.100	-0.100	0.0
00935	POTA	1.700	3.000	1.700	2.000
01145	SELE	-0.010	-0.010	-0.010	0.0
00955	SIL	26.000	9.900	9.800	19.500

00930	SODI	130.000	150.000	100.000	74.000
00945	SULF	200.000	250.000	185.000	190.000
00746	SULF	0.600	-1.000	-0.200	0.0
01090	ZINC	-0.100	-0.100	-0.100	0.0
01503	GROS	0.0	2.000	4.500	0.0
03501	GROS	0.0	0.0	19.000	0.0
00900	HARD	335.000	0.0	0.0	0.0
00400	PH	0.0	8.100	7.600	7.200
00095	COND	0.0	990.000	1060.000	1025.000
00540	DIS	700.000	625.000	570.000	0.0
01056	MANG	0.200	0.0	0.0	0.0
00410	ALKA	355.000	345.000	245.000	320.000
00720	CYAN	-0.010	-0.010	-0.010	0.0
01020	BORO	0.500	-0.100	0.200	0.0
01005	BARI	0.0	0.0	0.0	0.0
01075	SILV	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0	0.0
01130	LITH	-0.100	0.0	0.0	0.0
00681	DOC	6.500	14.000	12.000	0.0
00613	NITR	0.050	0.010	-0.010	-0.010
71870	BROM	-0.010	0.0	-0.100	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S8 PAGE 5

SAMPLES		1	2	3	4
00340	C.O.	9.900	0.0	30.000	0.0
32730	PHEN	-0.001	0.0	0.0	-0.001
00625	KJEL	2.000	0.0	0.0	0.0
01010	BERY	0.0	-0.100	0.0	0.0
01060	MOLY	-0.100	0.0	0.0	0.0
01080	STRO	1.400	-0.100	1.000	0.0
01085	VANA	0.0	0.0	0.0	0.0
00660	ORTH	-0.100	0.0	0.0	0.0
00608	AMMO	0.300	0.0	0.0	0.0
00681	DIS-	0.0	0.0	0.0	0.0
38260	MBAS	0.0	0.0	0.0	0.0
31501	TOT	0.0	0.0	0.0	0.0
31615	FEC	0.0	0.0	0.0	0.0
00310	5-DA	0.0	0.0	0.0	0.0
SPECTROGRAPHIC					
01006	ALUM	0.010	0.0	0.0	0.0
01095	ANTI	0.0	0.0	0.0	0.0
01000	ARSE	0.0	0.0	0.0	0.0
01005	BARI	0.010	0.010	0.0	0.0
01010	BERY	0.0	-0.100	0.0	0.0
01015	BISM	0.0	0.0	0.0	0.0
01020	BORO	0.500	0.0	0.0	0.0
01025	CADM	0.0	0.0	0.0	0.0
00915	CALC	99999.000	0.0	0.0	0.0
	CERI	0.0	0.0	0.0	0.0
	CESI	0.0	0.0	0.0	0.0
01030	CHRO	0.0	0.0	0.0	0.0
01035	COBO	0.0	0.0	0.0	0.0
	COLU	0.0	0.0	0.0	0.0
01040	COPP	0.001	0.010	0.001	0.0
	DYSP	0.0	0.0	0.0	0.0
	ERBI	0.0	0.0	0.0	0.0
	EURO	0.0	0.0	0.0	0.0
	GADO	0.0	0.0	0.0	0.0
01120	GALL	0.0	0.0	0.0	0.0
01125	GERM	0.0	0.0	0.0	0.0

	GOLD	0.0	0.0	0.0	0.0
	HAFN	0.0	0.0	0.0	0.0
	HOLM	0.0	0.0	0.0	0.0
	INDI	0.0	0.0	0.0	0.0
	IRID	0.0	0.0	0.0	0.0
01046	IRON	0.010	0.0	0.0	0.0
	LANT	0.0	0.0	0.0	0.0
01049	LEAD	0.0	0.0	0.0	0.0
01130	LITH	0.0	0.0	0.001	0.0
	LUTE	0.0	0.0	0.0	0.0
00925	MAGN	99999.000	0.0	0.0	0.0
01056	MANG	0.100	0.100	0.0	0.0
71890	MERC	0.0	0.0	0.0	0.0
01060	MOLY	0.010	0.001	0.010	0.0
	NEOD	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.001	0.0	0.0
	OSMI	0.0	0.0	0.0	0.0
	PALL	0.0	0.0	0.0	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S8 PAGE 6

SAMPLES		1	2	3	4
	PLAT	0.0	0.0	0.0	0.0
00935	POTA	0.100	0.0	0.0	0.0
	PRAS	0.0	0.0	0.0	0.0
09503	RADI	0.0	0.0	0.0	0.0
	RHEN	0.0	0.0	0.0	0.0
	RHOD	0.0	0.0	0.0	0.0
01135	RUBI	0.0	0.0	0.0	0.0
	RUTH	0.0	0.0	0.0	0.0
	SAMA	0.0	0.0	0.0	0.0
	SCAN	0.0	0.0	0.0	0.0
01145	SELE	0.0	0.0	0.0	0.0
00955	SILI	2.000	0.0	0.0	0.0
01075	SILV	0.0	0.0	0.0	0.0
00930	SODI	10.000	0.0	0.0	0.0
01080	STRO	0.100	0.100	0.100	0.0
	TANT	0.0	0.0	0.0	0.0
	TERB	0.0	0.0	0.0	0.0
	THAL	0.0	0.0	0.0	0.0
	THOR	0.0	0.0	0.0	0.0
	THUL	0.0	0.0	0.0	0.0
01100	TIN	0.0	0.0	0.0	0.0
01150	TITA	0.0	0.500	0.0	0.0
	TUNG	0.0	0.0	0.0	0.0
22703	URAN	0.0	0.0	0.0	0.0
01085	VANA	0.0	0.001	0.0	0.0
	YTTE	0.0	0.0	0.0	0.0
	YTTR	0.0	0.0	0.0	0.0
01090	ZINC	0.0	0.0	0.0	0.0
01160	ZIRC	0.0	0.0	0.0	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S11D PAGE 7

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7
DATE	20177	101077	11078	31378	40778	61378	92178
DEPTH	0.0	0.0	46.97	49.32	48.65	43.26	0.0
TEMP	0.0	0.0	15.4	10.5	9.5	10.0	0.0
LAB ID							
LAB NUM	0	0	0	0	0	0	0

METHOD		03	3	3	3	3	3	03
AQUIF.LOC.		A	A	A	A	A	A	A
WET								
01106	ALUM	0.100	-0.100	0.0	0.0	0.0	-0.100	0.0
71846	AMMO	0.0	0.150	0.0	0.0	0.0	-0.300	0.0
01000	ARSE	0.0	-0.010	0.0	0.0	0.0	-0.010	0.0
00440	BICA	640.000	655.000	0.0	545.000	605.000	495.000	390.000
01025	CADM	-0.010	-0.010	0.0	0.0	0.0	-0.010	0.0
00915	CALC	110.000	90.000	105.000	105.000	64.000	84.000	105.000
00445	CARB	-0.100	-0.100	-0.100	24.000	-0.100	12.000	-0.100
00940	CHLO	15.000	23.000	45.000	18.000	19.000	17.000	17.000
01030	CHRO	-0.010	-0.010	0.0	0.0	0.0	-0.010	0.0
01040	COPP	-0.100	0.0	0.0	0.0	0.0	0.0	0.0
00950	FLUO	0.200	0.100	0.200	0.500	0.400	0.200	0.200
71830	HYDR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01046	IRON	-0.050	-0.050	0.0	0.0	0.0	-0.050	0.0
01049	LEAD	0.030	0.020	0.0	0.0	0.0	-0.010	0.0
00925	MAGN	110.000	92.000	105.000	96.000	125.000	94.000	98.000
71890	MERC	-0.001	-0.001	0.0	0.0	0.0	-0.001	0.0
71851	NITR	12.500	6.400	0.0	3.000	0.200	9.600	5.700
70507	PHOS	-0.100	-0.100	0.0	-0.100	0.0	-0.100	0.0
00935	POTA	3.000	2.300	2.700	3.700	1.700	2.700	2.700
01145	SELE	-0.010	-0.010	0.0	0.0	0.0	-0.010	0.0
00955	SIL	33.000	11.000	24.000	0.0	11.000	12.000	25.300
00930	SODI	190.000	260.000	200.000	200.000	260.000	300.000	200.000
00945	SULF	520.000	595.000	520.000	605.000	650.000	545.000	550.000
00746	SULF	-0.100	-1.000	0.0	0.0	0.0	-0.200	0.0
01090	ZINC	-0.100	0.100	0.0	0.0	0.0	-0.100	0.0
01503	GROS	0.0	0.0	0.0	0.0	0.0	8.600	0.0
03501	GROS	0.0	0.0	0.0	0.0	0.0	23.000	0.0
00900	HARD	740.000	0.0	0.0	0.0	0.0	0.0	0.0
00400	PH	0.0	8.000	6.400	6.800	6.400	7.400	7.800
00095	COND	0.0	0.0	1625.000	0.0	1700.000	1825.000	1600.000
00540	DIS	1340.000	1250.000	0.0	1130.000	0.0	1170.000	0.0
01056	MANG	0.050	0.0	0.0	0.0	0.0	0.0	0.0
00410	ALKA	525.000	535.000	485.000	0.0	495.000	415.000	470.000
00720	CYAN	-0.010	-0.010	0.0	0.0	0.0	-0.010	0.0
01020	BORO	0.200	-0.100	0.0	0.0	0.0	-0.100	0.0
01005	BARI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01075	SILV	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01130	LITH	-0.100	0.0	0.0	0.0	0.0	0.0	0.0
00681	DOC	8.700	5.000	5.000	0.0	10.200	11.000	0.0
00613	NITR	0.100	-0.010	0.0	0.0	-0.010	-0.010	-0.010
71870	BROM	-0.100	0.0	0.0	0.0	0.0	-0.100	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S11D PAGE 8

SAMPLES		1	2	3	4	5	6	7
00340	C.O.	9.900	25.000	0.0	0.0	0.0	30.000	0.0
32730	PHEN	-0.001	0.014	0.0	0.0	0.0	0.0	-0.001
00625	KJEL	2.700	0.0	0.0	0.0	0.0	0.0	0.0
01010	BERY	0.0	-0.100	0.0	0.0	0.0	0.0	0.0
01060	MOLY	-0.100	0.0	0.0	0.0	0.0	0.0	0.0
01080	STRO	2.900	-0.100	0.0	0.0	0.0	1.800	0.0
01085	VANA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00660	ORTH	-0.100	0.0	0.0	-0.100	0.0	0.0	0.0
00608	AMMO	0.200	0.0	0.0	0.0	0.0	0.0	0.0
00681	DIS-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38260	MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31501	TOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0

31615	FEC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00310	5-DA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC								
01006	ALUM	0.010	0.0	0.0	0.0	0.0	0.0	0.0
01095	ANTI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01000	ARSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01005	BARI	0.010	0.0	0.0	0.0	0.0	0.0	0.0
01010	BERY	0.0	-0.100	0.0	0.0	0.0	0.0	0.0
01015	BISM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01020	BORO	0.500	0.0	0.0	0.0	0.0	0.0	0.0
01025	CADM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00915	CALC	99999.000	0.0	0.0	0.0	0.0	0.0	0.0
	CERI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CESI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01030	CHRO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01035	COBO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	COLU	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01040	COPP	0.001	0.001	0.0	0.0	0.0	0.001	0.0
	DYSP	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ERBI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EURO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	GADO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01120	GALL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01125	GERM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	HAFN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	HOLM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	INDI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	IRID	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01046	IRON	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	LANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01049	LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01130	LITH	0.0	0.001	0.0	0.0	0.0	0.001	0.0
	LUTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00925	MAGN	99999.000	0.0	0.0	0.0	0.0	0.0	0.0
01056	MANG	0.100	0.020	0.0	0.0	0.0	0.001	0.0
71890	MERC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01060	MOLY	0.010	0.001	0.0	0.0	0.0	0.001	0.0
	NEOD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	OSMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PALL	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES		1	2	3	4	5	6	7
	PLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00935	POTA	0.100	0.0	0.0	0.0	0.0	0.0	0.0
	PRAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09503	RADI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	RHEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	RHOD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01135	RUBI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	RUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	SAMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	SCAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01145	SELE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00955	SILI	5.000	0.0	0.0	0.0	0.0	0.0	0.0
01075	SILV	0.010	0.0	0.0	0.0	0.0	0.0	0.0
00930	SODI	10.000	0.0	0.0	0.0	0.0	0.0	0.0
01080	STRO	0.100	0.0	0.0	0.0	0.0	0.0	0.0
	TANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TERB	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	THAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	THOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	THUL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01100	TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01150	TITA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TUNG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22703	URAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01085	VANA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	YTTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	YTTR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01090	ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01160	ZIRC	0.0	0.0	0.0	0.0	0.0	0.0	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S26 8 5

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES		1	2	3
DATE		103177	11078	20378
DEPTH		0.0	27.83	0.0
TEMP		0.0	6.5	0.0
LAB ID				
LAB NUM		0	0	0
METHOD		3	3	3
AQUIF.LOC.		A	A	A
WET				
01106	ALUM	0.200	0.0	0.0
71846	AMMO	0.0	0.0	0.0
01000	ARSE	-0.010	0.0	0.0
00440	BICA	505.000	0.0	0.0
01025	CADM	-0.010	0.0	0.0
00915	CALC	120.000	110.000	0.0
00445	CARB	6.000	-0.100	0.0
00940	CHLO	13.000	185.000	0.0
01030	CHRO	-0.010	0.0	0.0
01040	COPP	0.0	0.0	0.0
00950	FLUO	0.700	0.400	0.0
71830	HYDR	0.0	0.0	0.0
01046	IRON	-0.050	0.0	0.0
01049	LEAD	0.070	0.0	0.0
00925	MAGN	60.000	63.000	0.0
71890	MERC	0.011	0.0	0.0
71851	NITR	4.100	0.0	0.0
70507	PHOS	-0.100	0.0	0.0
00935	POTA	2.700	2.700	0.0
01145	SELE	-0.010	0.0	0.0
00955	SIL	9.500	20.000	0.0
00930	SODI	130.000	125.000	0.0
00945	SULF	355.000	320.000	0.0
00746	SULF	-0.100	0.0	0.0
01090	ZINC	0.100	0.0	0.0
01503	GROS	0.0	0.0	0.0
03501	GROS	0.0	0.0	0.0
00900	HARD	0.0	0.0	0.0
00400	PH	8.300	6.700	8.000

00095	COND	0.0	1260.000	990.000
00540	DIS	840.000	0.0	0.0
01056	MANG	0.0	0.0	0.0
00410	ALKA	420.000	400.000	0.0
00720	CYAN	-0.010	0.0	0.0
01020	BORO	-0.100	0.0	0.0
01005	BARI	0.0	0.0	0.0
01075	SILV	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0
01130	LITH	0.0	0.0	0.0
00681	DOC	0.0	0.0	12.700
00613	NITR	-0.010	0.0	0.0
71870	BROM	0.0	0.0	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S26 PAGE 26

SAMPLES		1	2	3
00340	C.O.	0.0	0.0	0.0
32730	PHEN	0.0	0.0	0.0
00625	KJEL	0.0	0.0	0.0
01010	BERY	-0.010	0.0	0.0
01060	MOLY	0.0	0.0	0.0
01080	STRO	1.200	0.0	0.0
01085	VANA	0.0	0.0	0.0
00660	ORTH	0.0	0.0	0.0
00608	AMMO	0.0	0.0	0.0
00681	DIS-	0.0	0.0	0.0
38260	MBAS	0.0	0.0	0.0
31501	TOT	0.0	0.0	0.0
31615	FEC	0.0	0.0	0.0
00310	5-DA	0.0	0.0	0.0
SPECTROGRAPHIC				
01006	ALUM	0.0	0.0	0.0
01095	ANTI	0.0	0.0	0.0
01000	ARSE	0.0	0.0	0.0
01005	BARI	0.0	0.0	0.0
01010	BERY	-0.010	0.0	0.0
01015	BISM	0.0	0.0	0.0
01020	BORO	0.0	0.0	0.0
01025	CADM	0.0	0.0	0.0
00915	CALC	0.0	0.0	0.0
	CERI	0.0	0.0	0.0
	CESI	0.0	0.0	0.0
01030	CHRO	0.0	0.0	0.0
01035	COBO	0.0	0.0	0.0
	COLU	0.0	0.0	0.0
01040	COPP	0.0	0.0	0.0
	DYSP	0.0	0.0	0.0
	ERBI	0.0	0.0	0.0
	EURO	0.0	0.0	0.0
	GADO	0.0	0.0	0.0
01120	GALL	0.0	0.0	0.0
01125	GERM	0.0	0.0	0.0
	GOLD	0.0	0.0	0.0
	HAFN	0.0	0.0	0.0
	HOLM	0.0	0.0	0.0
	INDI	0.0	0.0	0.0
	IRID	0.0	0.0	0.0
01046	IRON	0.0	0.0	0.0
	LANT	0.0	0.0	0.0
01049	LEAD	0.0	0.0	0.0

01130	LITH	0.0	0.0	0.0
	LUTE	0.0	0.0	0.0
00925	MAGN	0.0	0.0	0.0
01056	MANG	0.0	0.0	0.0
71890	MERC	0.0	0.0	0.0
01060	MOLY	0.0	0.0	0.0
	NEOD	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0
	OSMI	0.0	0.0	0.0
	PALL	0.0	0.0	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S26 PAGE 27

SAMPLES		1	2	3
	PLAT	0.0	0.0	0.0
00935	POTA	0.0	0.0	0.0
	PRAS	0.0	0.0	0.0
09503	RADI	0.0	0.0	0.0
	RHEN	0.0	0.0	0.0
	RHOD	0.0	0.0	0.0
01135	RUBI	0.0	0.0	0.0
	RUTH	0.0	0.0	0.0
	SAMA	0.0	0.0	0.0
	SCAN	0.0	0.0	0.0
01145	SELE	0.0	0.0	0.0
00955	SILI	0.0	0.0	0.0
01075	SILV	0.0	0.0	0.0
00930	SODI	0.0	0.0	0.0
01080	STRO	0.0	0.0	0.0
	TANT	0.0	0.0	0.0
	TERB	0.0	0.0	0.0
	THAL	0.0	0.0	0.0
	THOR	0.0	0.0	0.0
	THUL	0.0	0.0	0.0
01100	TIN	0.0	0.0	0.0
01150	TITA	0.0	0.0	0.0
	TUNG	0.0	0.0	0.0
22703	URAN	0.0	0.0	0.0
01085	VANA	0.0	0.0	0.0
	YTTE	0.0	0.0	0.0
	YTTR	0.0	0.0	0.0
01090	ZINC	0.0	0.0	0.0
01160	ZIRC	0.0	0.0	0.0

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JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES		1	2	3	4	5	6	7
DATE		103177	112877	10978	20378	31378	40578	61378
DEPTH		0.0	27.11	27.41	0.0	14.85	11.97	7.55
TEMP		0.0	7.5	6.0	0.0	9.0	8.5	14.5
LAB ID								
LAB NUM		0	0	0	0	0	0	0
METHOD		3	3	3	3	3	3	3
AQUIF.LOC.		A	A	A	A	A	A	A
WET								
01106	ALUM	0.100	1.200	0.0	0.0	0.0	0.0	0.100
71846	AMMO	0.560	0.560	0.0	0.0	0.0	0.0	0.800
01000	ARSE	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
00440	BICA	590.000	545.000	0.0	0.0	490.000	545.000	610.000

01025	CADM	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
00915	CALC	130.000	135.000	120.000	0.0	120.000	84.000	52.000
00445	CARB	-0.100	-0.100	-0.100	0.0	42.000	24.000	-0.100
00940	CHLO	20.000	13.000	56.000	0.0	18.000	22.000	14.000
01030	CHRO	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
01040	COPP	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00950	FLUO	0.600	0.600	0.300	0.0	0.400	0.200	0.100
71830	HYDR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01046	IRON	-0.050	0.700	0.0	0.0	0.0	0.0	-0.050
01049	LEAD	0.050	0.140	0.0	0.0	0.0	0.0	-0.010
00925	MAGN	48.000	72.000	68.000	0.0	79.000	91.000	105.000
71890	MERC	-0.001	-0.001	0.0	0.0	0.0	0.0	0.002
71851	NITR	1.900	0.800	0.0	0.0	0.300	-0.100	0.300
70507	PHOS	0.100	0.300	0.0	0.0	0.100	0.0	-0.100
00935	POTA	4.500	5.000	33.000	0.0	3.300	2.300	2.500
01145	SELE	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
00955	SIL	8.100	9.900	20.000	0.0	0.0	9.500	10.000
00930	SODI	250.000	140.000	145.000	0.0	140.000	200.000	260.000
00945	SULF	520.000	410.000	430.000	0.0	495.000	490.000	425.000
00746	SULF	-0.100	0.0	0.0	0.0	0.0	0.0	-0.200
01090	ZINC	0.100	0.100	0.0	0.0	0.0	0.0	0.100
01503	GROS	14.000	14.000	0.0	0.0	0.0	0.0	4.800
03501	GROS	0.0	0.0	0.0	0.0	0.0	0.0	8.000
00900	HARD	0.0	630.000	0.0	0.0	0.0	0.0	0.0
00400	PH	8.000	8.100	6.800	8.300	6.800	6.400	7.600
00095	COND	0.0	1050.000	1550.000	1200.000	0.0	0.0	1680.000
00540	DIS	1130.000	1050.000	0.0	0.0	990.000	0.0	0.0
01056	MANG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00410	ALKA	485.000	445.100	455.000	0.0	0.0	465.000	500.000
00720	CYAN	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
01020	BORO	-0.100	-0.100	0.0	0.0	0.0	0.0	0.300
01005	BARI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01075	SILV	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01130	LITH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00681	DOC	0.0	0.0	0.0	8.100	0.0	10.000	11.000
00613	NITR	-0.010	-0.010	0.0	0.0	0.0	-0.010	-0.010
71870	BROM	0.0	0.0	0.0	0.0	0.0	0.0	-0.100

01/02/79 WATER QUALITY ANALYSIS RESULTS — CORE HOLE ID GS-S27 PAGE 29

SAMPLES		1	2	3	4	5	6	7
00340	C.O.	0.0	35.000	0.0	0.0	0.0	0.0	38.000
32730	PHEN	-0.001	-0.001	0.0	0.0	0.0	0.0	0.0
00625	KJEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01010	BERY	-0.010	-0.010	0.0	0.0	0.0	0.0	0.0
01060	MOLY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01080	STRO	1.200	1.400	0.0	0.0	0.0	0.0	1.600
01085	VANA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00660	ORTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00608	AMMO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00681	DIS-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38260	MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31501	TOT	0.010	0.0	0.0	0.0	0.0	0.0	0.0
31615	FEC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00310	5-DA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC								
01006	ALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01095	ANTI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01000	ARSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01005	BARI	0.0	0.0	0.0	0.0	0.0	0.0	0.0

01010	BERY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01015	BISM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01020	BORO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01025	CADM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00915	CALC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CERI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CESI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01030	CHRO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01035	COBO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	COLU	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01040	COPP	0.0	0.0	0.0	0.0	0.0	0.0	0.001
	DYSP	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ERBI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EURO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	GADO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01120	GALL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01125	GERM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	HAFN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	HOLM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	INDI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	IRID	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01046	IRON	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	LANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01049	LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01130	LITH	0.0	0.0	0.0	0.0	0.0	0.0	0.001
	LUTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00925	MAGN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01056	MANG	0.0	0.0	0.0	0.0	0.0	0.0	0.050
71890	MERC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01060	MOLY	0.0	0.0	0.0	0.0	0.0	0.0	0.001
	NEOD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	OSMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PALL	0.0	0.0	0.0	0.0	0.0	0.0	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S27 PAGE 30

SAMPLES		1	2	3	4	5	6	7
	PLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00935	POTA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PRAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09503	RADI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	RHEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	RHOD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01135	RUBI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	RUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	SAMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	SCAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01145	SELE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00955	SILI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01075	SILV	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00930	SODI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01080	STRO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TERB	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	THAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	THOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	THUL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01100	TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01150	TITA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TUNG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22703	URAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01085	VANA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	YTTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	YTTR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01090	ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01160	ZIRC	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

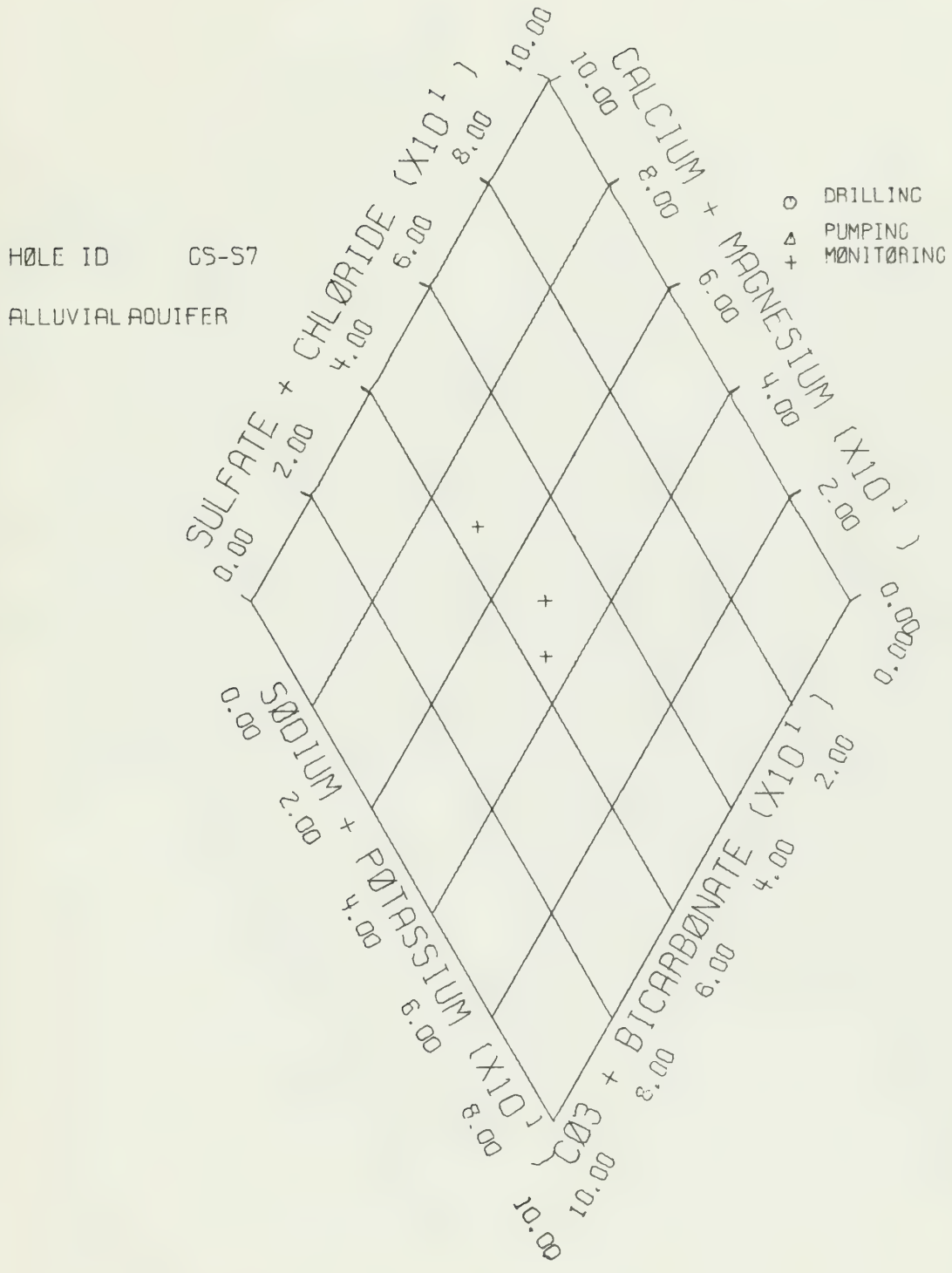
SAMPLES	1
DATE	62678
DEPTH	455.10
TEMP	14.5
LAB ID	
LAB NUM	0
METHOD	3
AQUIF.LOC.	0

WET			SPECTROGRAPHIC		
01106	ALUM	0.400	01006	ALUM	0.0
71846	AMMO	-0.300	01095	ANTI	0.0
01000	ARSE	-0.010	01000	ARSE	0.0
00440	BICA	340.000	01005	BARI	0.0
01025	CADM	0.010	01010	BERY	0.0
00915	CALC	20.000	01015	BISM	0.0
00445	CARB	66.000	01020	BORO	0.0
00940	CHLO	3.500	01025	CADM	0.0
01030	CHRO	-0.010	00915	CALC	0.0
01040	COPP	0.0		CERI	0.0
00950	FLUO	4.700		CESI	0.0
71830	HYDR	0.0	01030	CHRO	0.0
01046	IRON	-0.050	01035	COBO	0.0
01049	LEAD	-0.010		COLU	0.0
00925	MAGN	5.300	01040	COPP	0.001
71890	MERC	-0.001		DYSP	0.0
71851	NITR	0.100		ERBI	0.0
70507	PHOS	-0.100		EURO	0.0
00935	POTA	2.000		GADO	0.0
01145	SELE	-0.010	01120	GALL	0.0
00955	SIL	3.700	01125	GERM	0.0
00930	SODI	250.000		GOLD	0.0
00945	SULF	215.000		HAFN	0.0
00746	SULF	0.400		HOLM	0.0
01090	ZINC	-0.100		INDI	0.0
01503	GROS	0.0		IRID	0.0
03501	GROS	0.900	01046	IRON	0.0
00900	HARD	0.0		LANT	0.0
00400	PH	7.400	01049	LEAD	0.0
00095	COND	1175.000	01130	LITH	0.001
00540	DIS	545.000		LUTE	0.0
01056	MANG	0.0	00925	MAGN	0.0
00410	ALKA	335.000	01056	MANG	0.010
00720	CYAN	-0.010	71890	MERC	0.0
01020	BORO	0.100	01060	MOLY	0.010
01005	BARI	0.0		NEOD	0.0
01075	SILV	0.0	01065	NICK	0.0
01065	NICK	0.0		OSMI	0.0
01130	LITH	0.0		PALL	0.0
00681	DOC	2.300	01/02/79		
00613	NITR	0.090	SAMPLES		1
71870	BROM	-0.100			
01/02/79				PLAT	0.0
SAMPLES		1	00935	POTA	0.0
				PRAS	0.0
00340	C.O.	28.000	09503	RADI	0.0
32730	PHEN	0.0		RHEN	0.0
00625	KJEL	0.0		RHOD	0.0
01010	BERY	0.0	01135	RUBI	0.0
01060	MOLY	0.0		RUTH	0.0
01080	STRO	0.600		SAMA	0.0
01085	VANA	0.0		SCAN	0.0
00660	ORTH	0.0	01145	SELE	0.0
00608	AMMO	0.0	00955	SILI	0.0
00681	DIS-	0.0	01075	SILV	0.0
38260	MBAS	0.0	00930	SODI	0.0
31501	TOT	0.0	01080	STRO	0.0
31615	FEC	0.0		TANT	0.0
00310	5-DA	0.0		TERB	0.0

Spectrographic (cont.)

	THAL	0.0
	THOR	0.0
	THUL	0.0
01100	TIN	0.0
01150	TITA	0.0
	TUNG	0.0
22703	URAN	0.0
01085	VANA	0.0
	YTTE	0.0
	YTTR	0.0
01090	ZINC	0.0
01160	ZIRC	0.0

APPENDIX 5-2.3
ALLUVIAL WELL WATER QUALITY CLUSTER ANALYSES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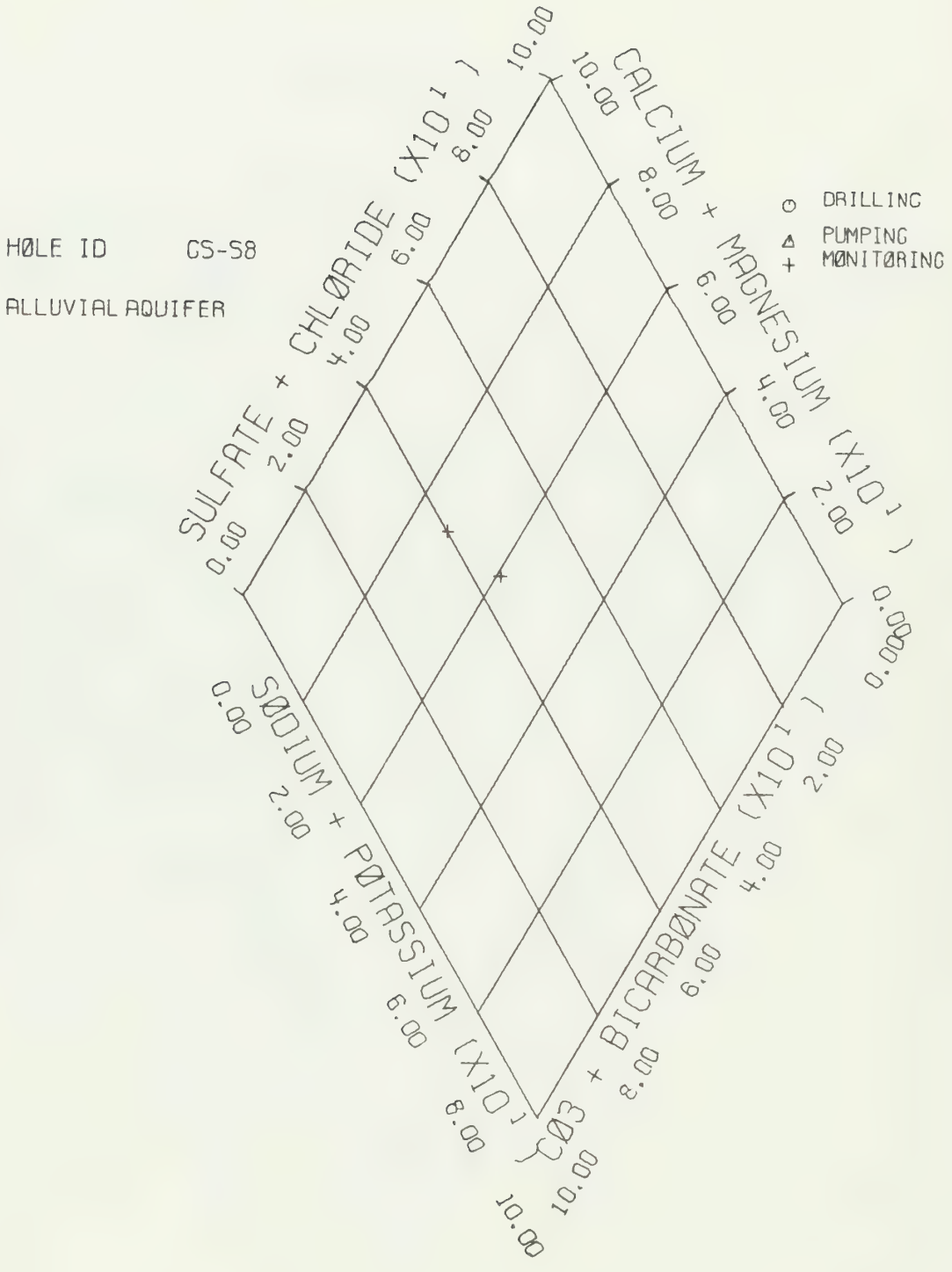
PUMPING
MØNITØRING
SULFATE + CHLØRIDE (X10 ¹)
CALCIUM + MAGNESIUM (X10 ¹)
SØDIUM + PØTASSIUM (X10)
CØ3 + BICARBØNATE (X10 ¹)
0.00
2.00
4.00
6.00
8.00
10.00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MØNITØRING
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CALCIUM + MAGNESIUM (X10 1)
SØDIUM + PØTASSIUM (X10 1)
CØ3 + BICARBØNATE (X10 1)
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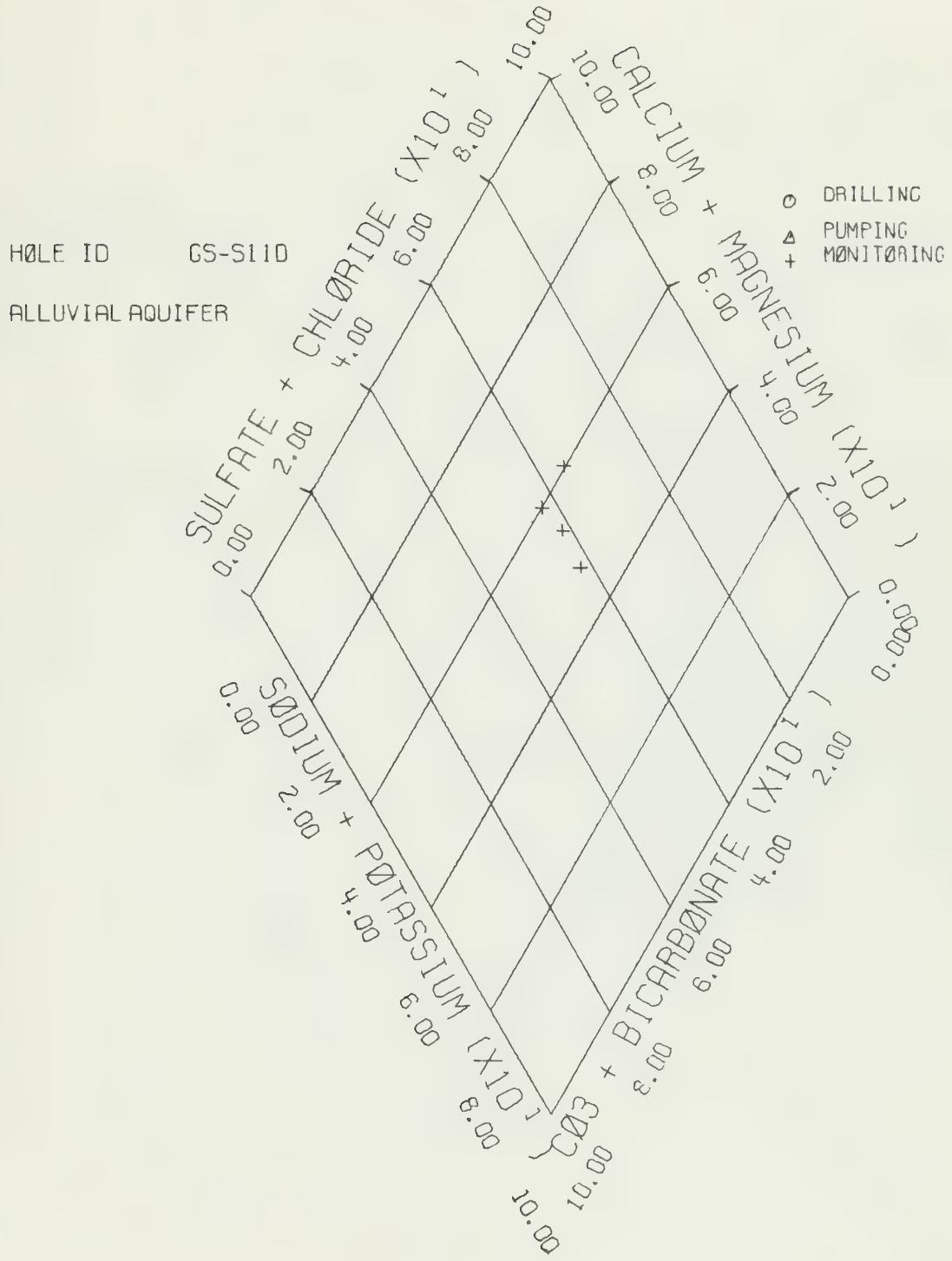
2.00
4.00
6.00
8.00
10.00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PUMPING
MØNITØRING
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CALCIUM + MAGNESIUM (X10)
SØDIUM + PØTASSIUM (X10)
CØ3 + BICARBØNATE (X10)
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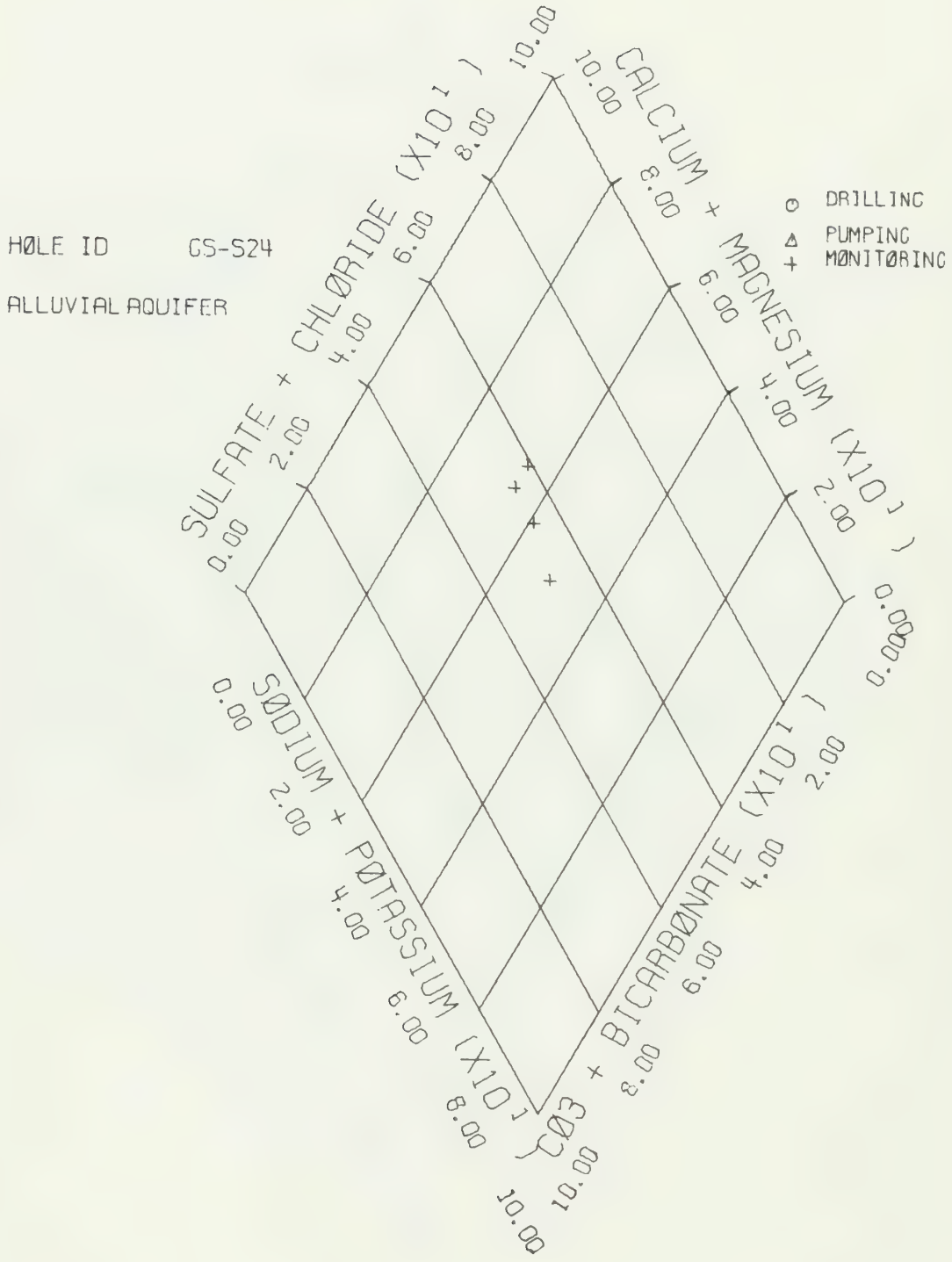
2.00
4.00
6.00
8.00
10.00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PUMPING
MØNITØRING
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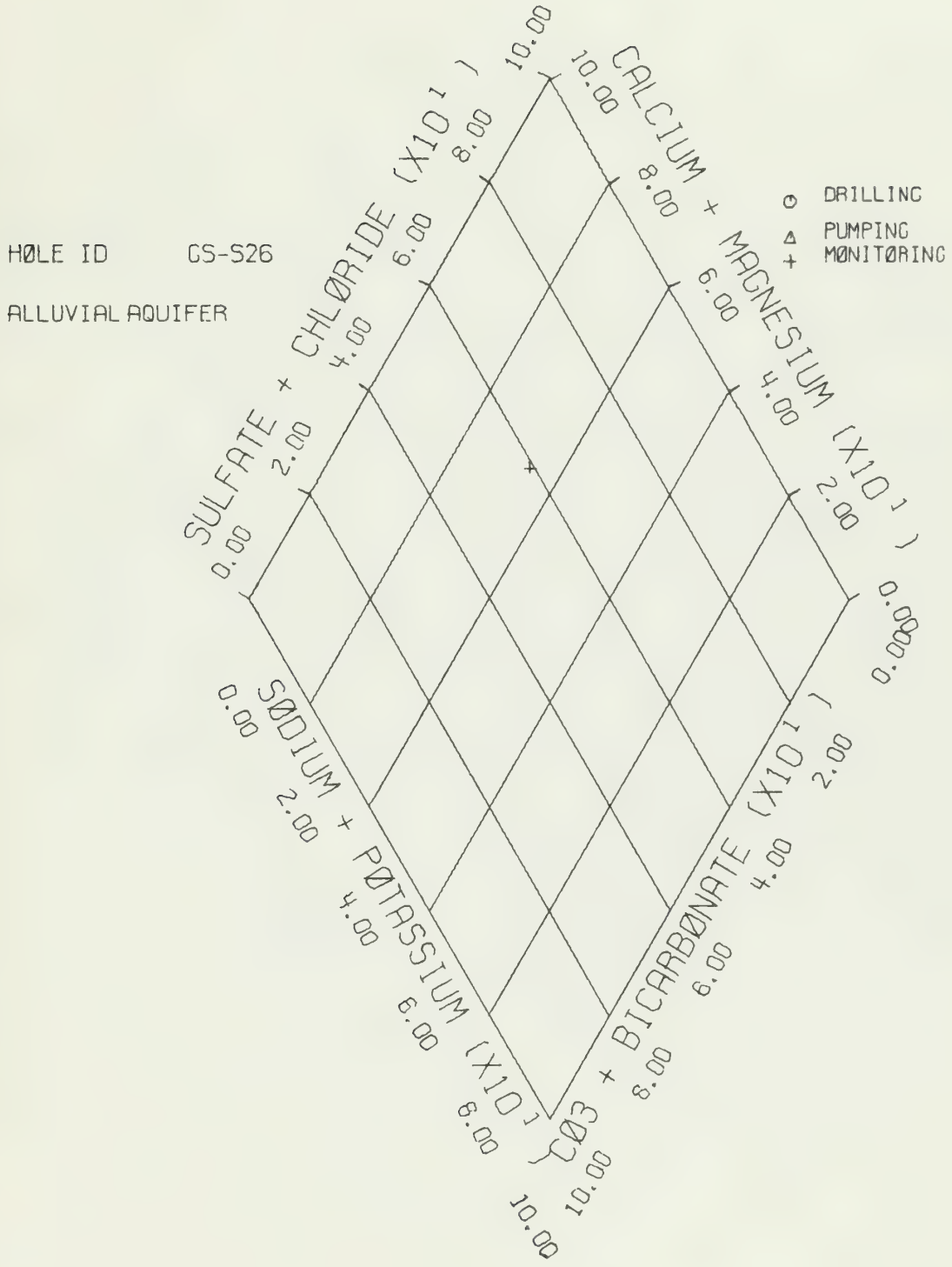
CALCIUM + MAGNESIUM (X10 1)
SØDIUM + PØTASSIUM (X10 1)
CØ3 + BICARBØNATE (X10 1)
0.00
2.00
4.00
6.00
8.00
10.00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PUMPING
MØNITØRING
SULFATE + CHLØRIDE (X10 1)
CALCIUM + MAGNESIUM (X10 1)
SØDIUM + PØTASSIUM (X10 1)
CØ3 + BICARBØNATE (X10 1)
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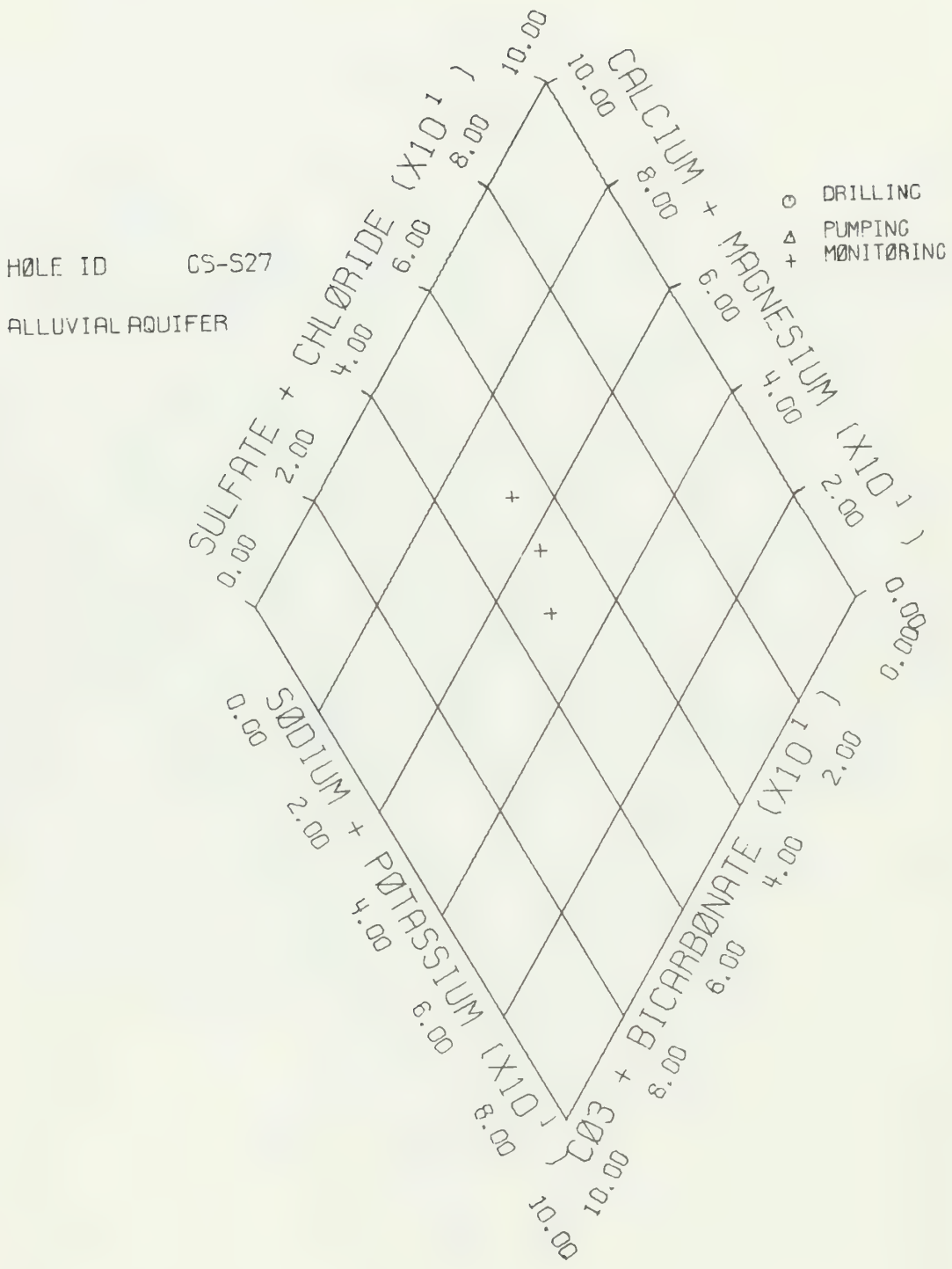
2.00
4.00
6.00
8.00
10.00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PUMPING
MØNITØRING
SULFATE + CHLØRIDE (X10 1)
CALCIUM + MAGNESIUM (X10 1)
SØDIUM + PØTASSIUM (X10 1)
CØ3 + BICARBØNATE (X10 1)
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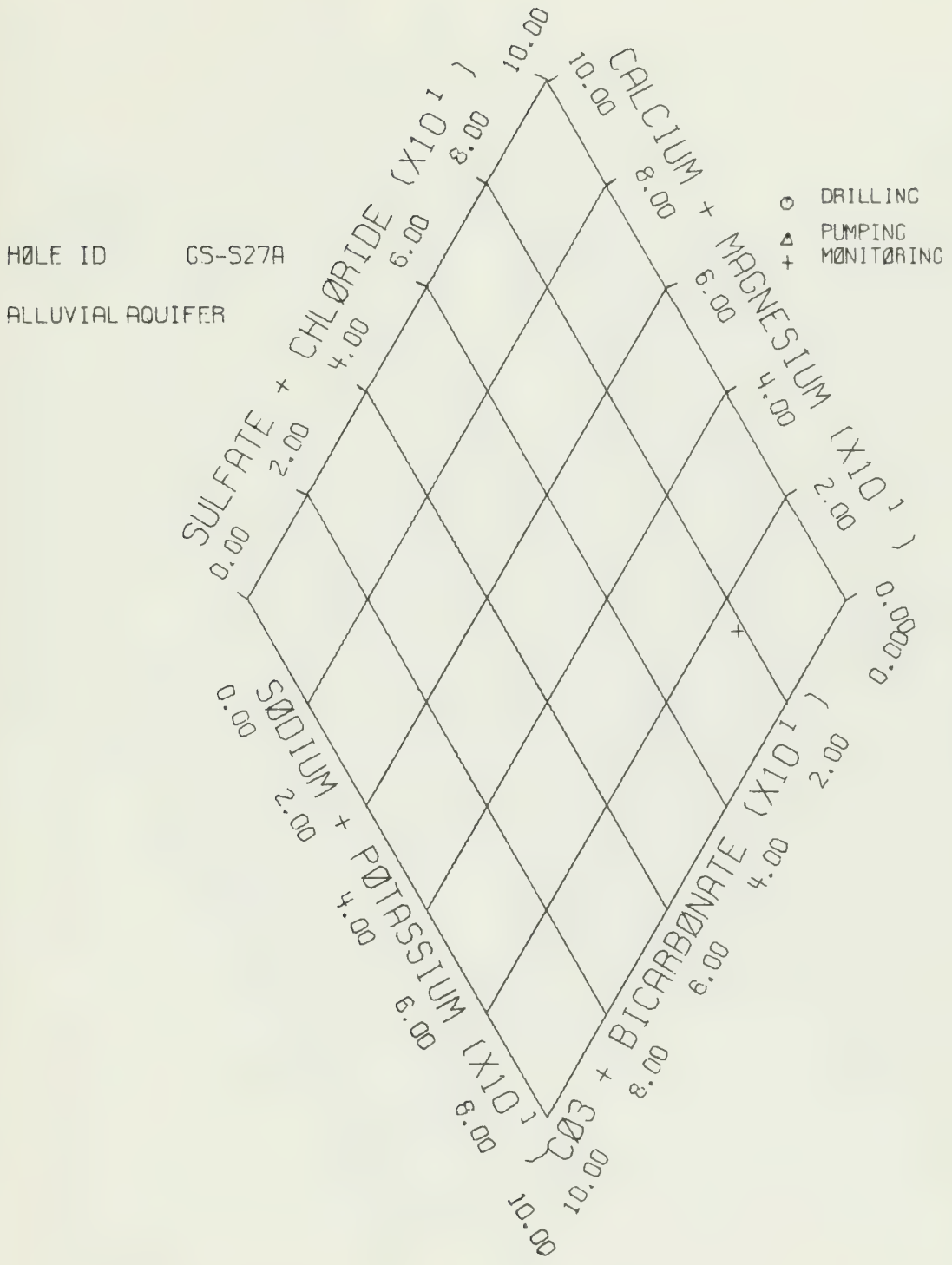
2.00
4.00
6.00
8.00
10.00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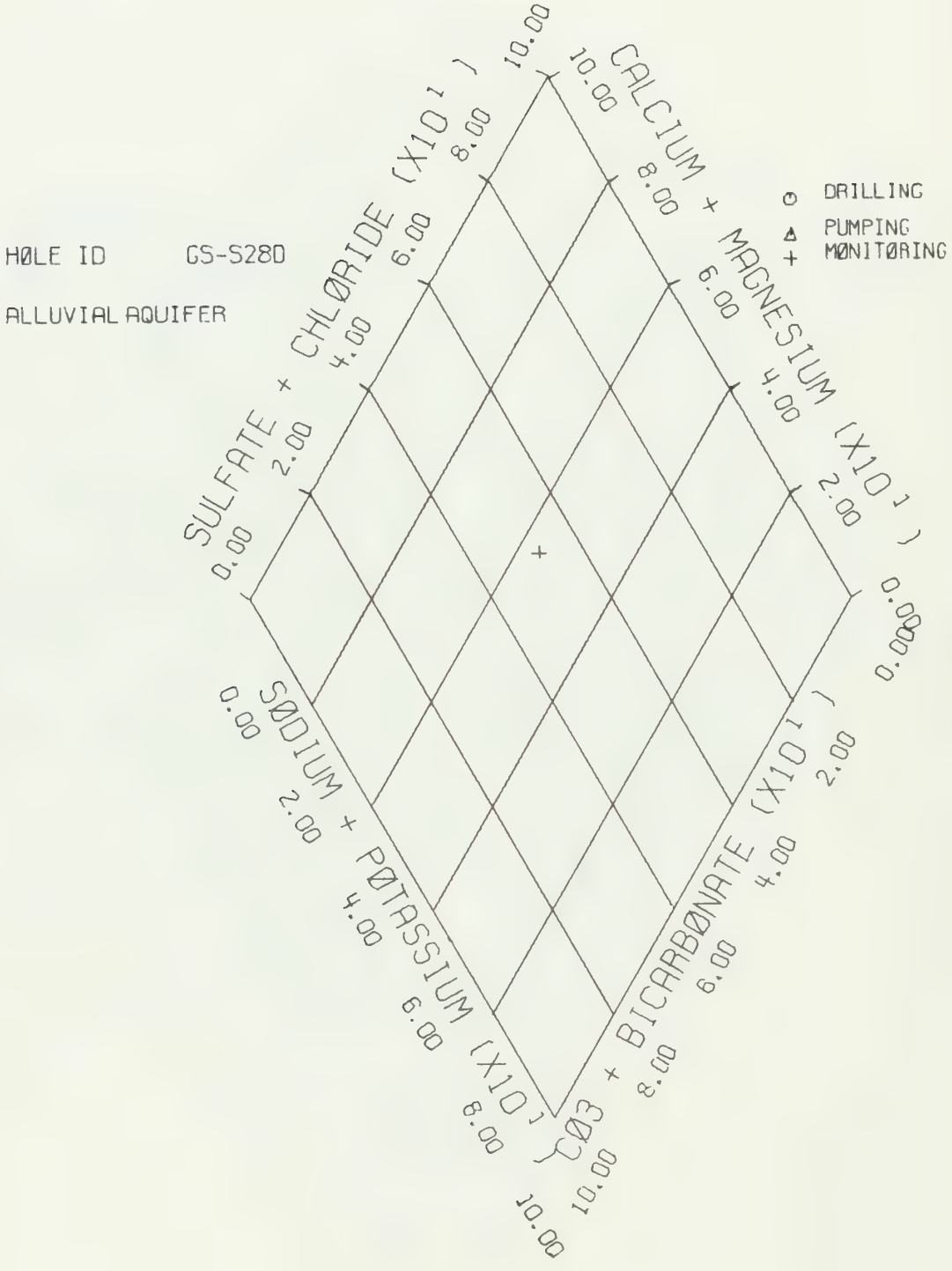
CALCIUM + MAGNESIUM (X10 1)
SØDIUM + POTASSIUM (X10 1)
CØ3 + BICARBØNATE (X10 1)
0.00
2.00
4.00
6.00
8.00
10.00
DRILLING
PUMPING
MØNITØRING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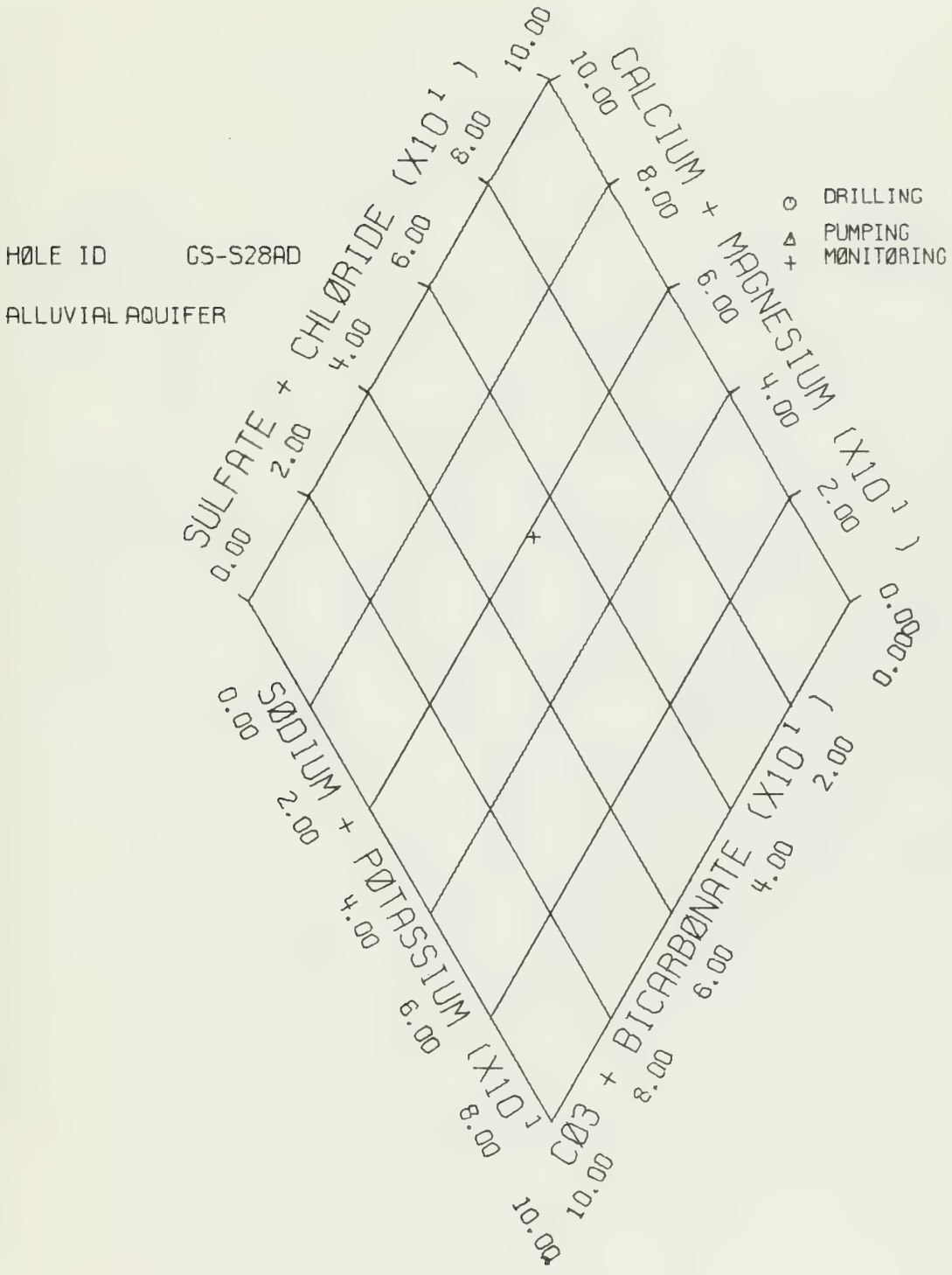
PUMPING
MØNITØRING
SULFATE + CHLØRIDE (X10)
CALCIUM + MAGNESIUM (X10)
SØDIUM + PØTASSIUM (X10)
CØ3 + BICARBØNATE (X10)
0.00
2.00
4.00
6.00
8.00
10.00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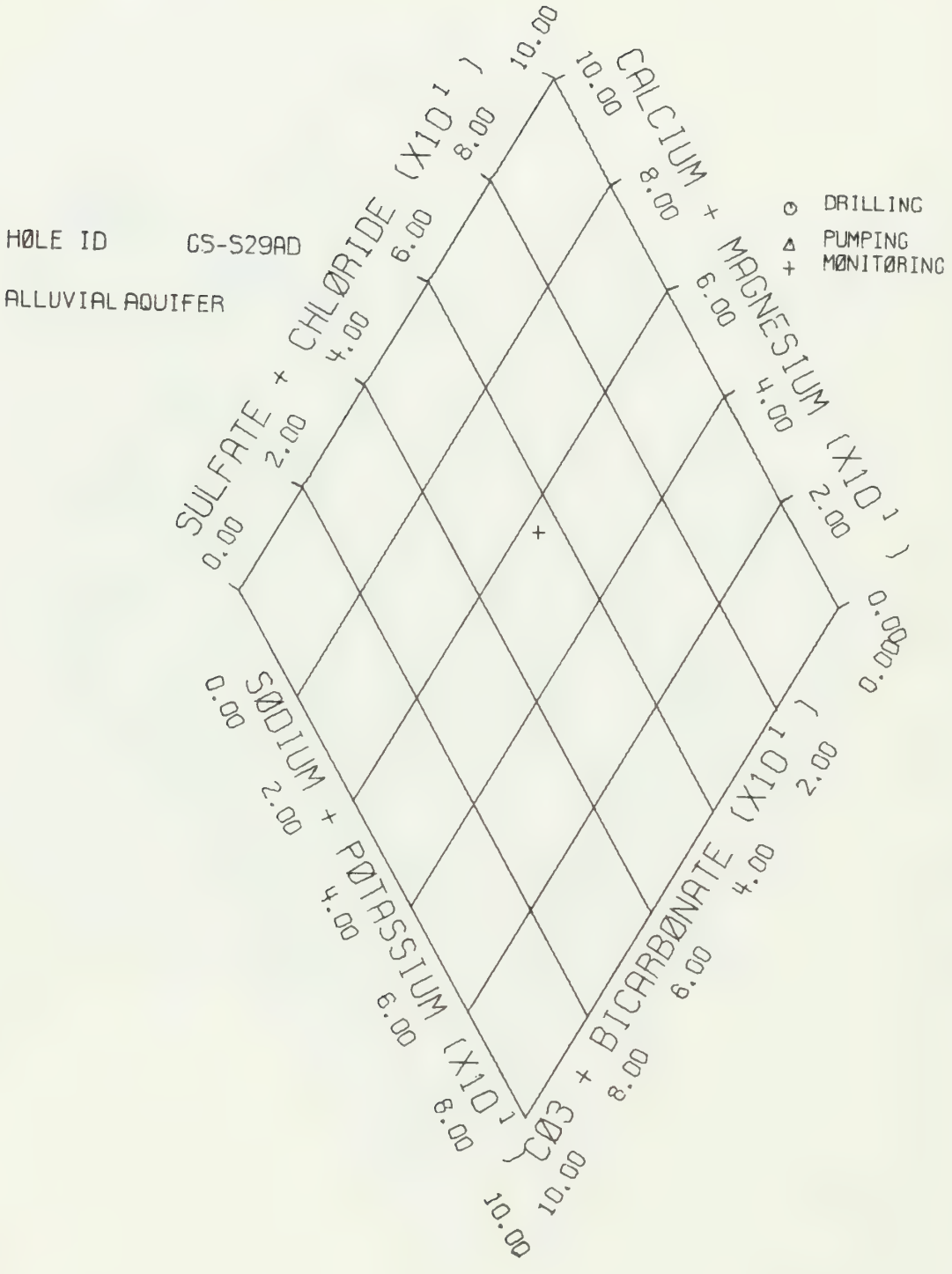
DRILLING
PUMPING
MØNITØRING
SULFATE + CHLØRIDE (X10 1)
CALCIUM + MAGNESIUM (X10 1)
SØDIUM + PØTASSIUM (X10 1)
CØ3 + BICARBØNATE (X10 1)
0.00
2.00
4.00
6.00
8.00
10.00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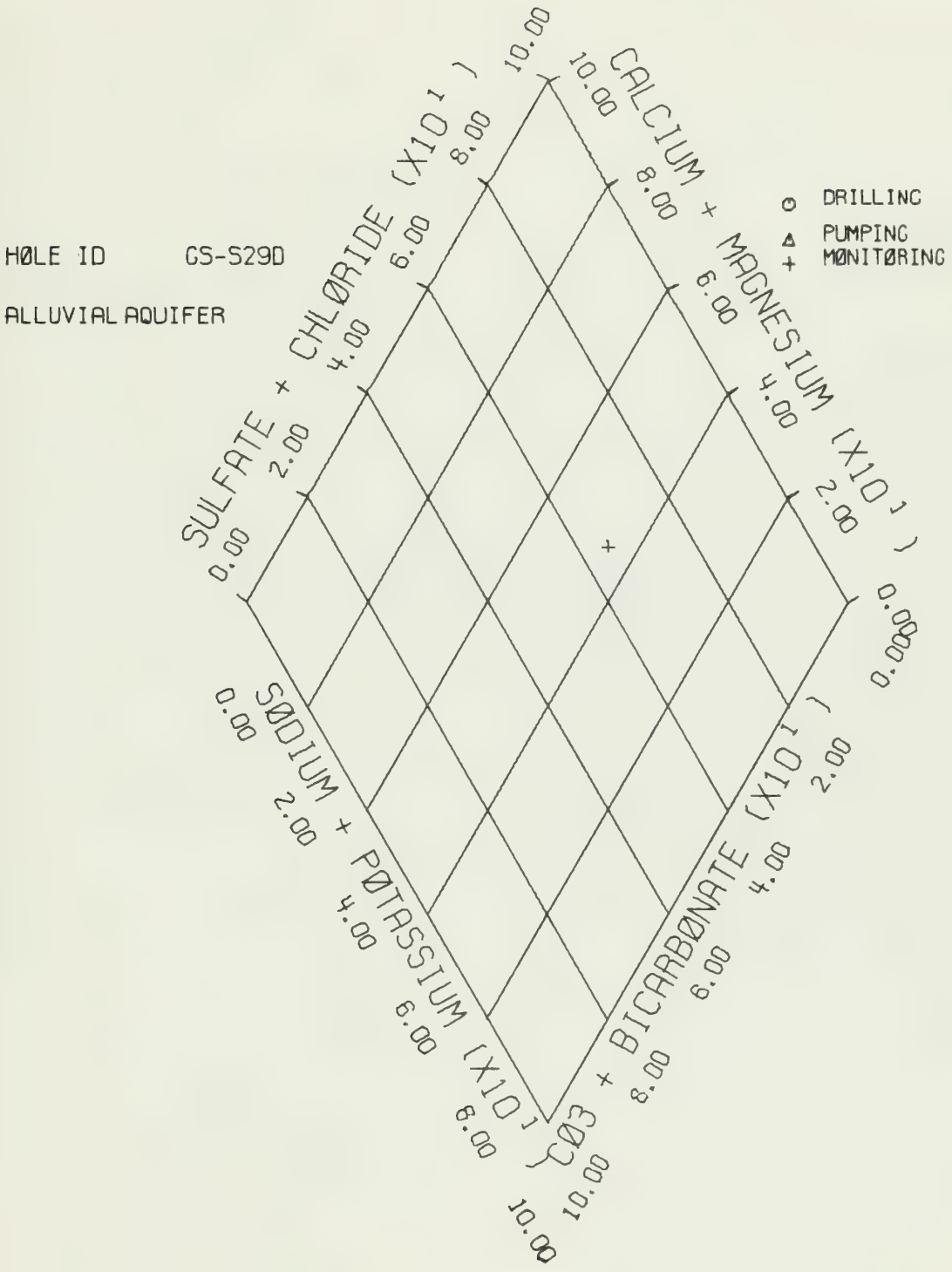
ALLUVIAL AQUIFER
DRILLING
PUMPING
MØNITØRING
CALCIUM + MAGNESIUM (X10¹)
SULFATE + CHLØRIDE (X10¹)
SØDIUM + PØTASSIUM (X10¹)
CØ3 + BICARBØNATE (X10¹)
0.00
2.00
4.00
6.00
8.00
10.00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ALLUVIAL AQUIFER
DRILLING
PUMPING
MØNITØRING
SULFATE + CHLØRIDE (X10 1)
CALCIUM + MAGNESIUM (X10 1)
SØDIUM + PØTASSIUM (X10 1)
CØ3 + BICARBØNATE (X10 1)
0.00
2.00
4.00
6.00
8.00
10.00

APPENDIX 5-2.2

DEEP OIL SHALE AQUIFERS

APPENDIX 5-2.4

DEEP OIL SHALE AQUIFER WATER QUALITY - INDIVIDUAL ANALYSES

CORE-HOLE GS-15 AQUIFER U METHOD 3 WET SAMPLES

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003&	SAMPLE DEPTH, FEET	1	274.65	274.65									
00011&	TEMPERATURE, WATER DEG. F	1	56.30	56.30									
00095	CONDUCTIVITY UMHOS AT 25 DEG C	1	1700.00	1700.00									
00340	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	1	15.00	15.00									
00400&	PH STANDARD UNITS	1	7.60	7.60									
00410	ALKALINITY, TOTAL MG-L AS CACO3	1	345.00	345.00									
00440	BICARBONATE ION MG-L AS HCO3	1	405.00	405.00									
00445	CARBONATE ION MG-L AS CO3	1	18.00	18.00									
00540	DISSOLVED SOLIDS ROE AT 178 DEG C, M	1	1150.00	1150.00									
00613	NITROGEN, NITRITE, DISSOLVED MG-L AS N	1	0.01	0.01									
00681	CARBON, ORGANIC, DISS MG-L AS C	1	1.60	1.60									
00720	CYANIDE MG-L AS CN	1	0.01	0.01									
00746	SULFIDE, DISSOLVED MG-L AS S	1	2.20	2.20									
00915	CALCIUM, DISSOLVED MG-L AS CA	1	25.00	25.00									
00925	MAGNESIUM, DISSOLVED MG-L AS MG	1	87.00	87.00									
00930	SODIUM, DISSOLVED MG-L AS NA	1	235.00	235.00									
00935	POTASSIUM, DISSOLVED MG-L AS K	1	4.00	4.00									

CORE-HOLE GS-15 AQUIFER U METHOD 3

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00940	CHLORIDE, DISSOLVED MG-L AS CL	1	10.00	10.00									
00945	SULFATE, DISSOLVED MG-L AS SO4	1	525.00	525.00									
00950	FLUORIDE, TOTAL MG-L AS F	1	1.40	1.40									
00955	SILICA, DISSOLVED MG-L AS SIO2	1	6.80	6.80									
01000	ARSENIC, DISSOLVED UG-L AS AS	1	10.00	10.00									
01020	BORON, DISSOLVED UG-L AS B	1	100.00	100.00									
01025	CADMIUM, DISSOLVED UG-L AS CD	1	10.00	10.00									
01030	CHROMIUM, DISSOLVED UG-L AS CR	1	10.00	10.00									
01046	IRON, DISSOLVED UG-L AS FE	1	50.00	50.00									
01049	LEAD, DISSOLVED UG-L AS PB	1	10.00	10.00									
01080	STRONTIUM, DISSOLVED UG-L AS SR	1	2499.99	2499.99									
01090	ZINC, DISSOLVED UG-L AS ZN	1	100.00	100.00									
01106	ALUMINUM, DISSOLVED UG-L AS AL	1	400.00	400.00									
01145	SELENIUM, DISSOLVED UG-L AS SE	1	10.00	10.00									
70507	PHOSPHORUS, TOTAL ORTHO MG-L AS P	1	0.10	0.10									
71846	NITROGEN, AMMONIA DISS MG-L AS NH4	1	1.40	1.40									
71851	NITROGEN, NITRATE DISS MG-L AS NO3	1	0.10	0.10									

CORE-HOLE GS-15 AQUIFER U METHOD 3 WET SAMPLES

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
71870 BROMIDE MG-L	1	0.10	0.10									
71890 MERCURY DISSOLVED UG-L AS HG	1	1.00	1.00									

END OF CORE-HOLE GS-15 AQUIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 06-26-78 THRU 06-26-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

CORE-HOLE GS-15 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003& SAMPLE DEPTH, FEET	1	274.65	274.65									
00011& TEMPERATURE, WATER DEG. F	1	56.30	56.30									
01056 MANGANESE, DISSOLVED UG-L AS MN	1	1.00	1.00									
01060 MOLYBDENUM, DISS UG-L AS MO	1	1.00	1.00									

END OF CORE-HOLE GS-15 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 06-26-78 THRU 06-26-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

CORE-HOLE GS-M1 AQUIFER U METHOD 3

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003&	SAMPLE DEPTH, FEET	1	644.01	644.01									
00011&	TEMPERATURE, WATER DEG. F	1	69.80	69.80									
00095	CONDUCTIVITY UMHOS AT 25 DEG C	1	1090.00	1090.00									
00340	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	1	38.00	38.00									
00400&	PH STANDARD UNITS	1	8.00	8.00									
00410	ALKALINITY, TOTAL MG-L AS CACO3	1	295.00	295.00									
00440	BICARBONATE ION MG-L AS HCO3	1	260.00	260.00									
00445	CARBONATE ION MG-L AS CO3	1	96.00	96.00									
00540	DISSOLVED SOLIDS ROE AT 178 DEG C, M	1	670.00	670.00									
00613	NITROGEN, NITRITE, DISSOLVED MG-L AS N	1	0.01	0.01									
00681	CARBON, ORGANIC, DISS MG-L AS C	1	4.00	4.00									
00720	CYANIDE MG-L AS CN	1	0.01	0.01									
00746	SULFIDE, DISSOLVED MG-L AS S	1	0.40	0.40									
00915	CALCIUM, DISSOLVED MG-L AS CA	1	8.20	8.20									
00925	MAGNESIUM, DISSOLVED MG-L AS MG	1	23.00	23.00									
00930	SODIUM, DISSOLVED MG-L AS NA	1	200.00	200.00									
00935	POTASSIUM, DISSOLVED MG-L AS K	1	2.70	2.70									

CORE-HOLE GS-M1 AQUIFER U METHOD 3

WET SAMPLES

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00940	CHLORIDE, DISSOLVED MG-L AS CL	1	10.00	10.00									
00945	SULFATE, DISSOLVED MG-L AS SO4	1	175.00	175.00									
00950	FLUORIDE, TOTAL MG-L AS F	1	0.80	0.80									
00955	SILICA, DISSOLVED MG-L AS SIO2	1	2.00	2.00									
01000	ARSENIC, DISSOLVED UG-L AS AS	1	10.00	10.00									
01020	BORON, DISSOLVED UG-L AS B	1	100.00	100.00									
01025	CADMIUM, DISSOLVED UG-L AS CD	1	10.00	10.00									
01030	CHROMIUM, DISSOLVED UG-L AS CR	1	10.00	10.00									
01046	IRON, DISSOLVED UG-L AS FE	1	50.00	50.00									
01049	LEAD, DISSOLVED UG-L AS PB	1	10.00	10.00									
01080	STRONTIUM, DISSOLVED UG-L AS SR	1	900.00	900.00									
01090	ZINC, DISSOLVED UG-L AS ZN	1	100.00	100.00									
01106	ALUMINUM, DISSOLVED UG-L AS AL	1	400.00	400.00									
01145	SELENIUM, DISSOLVED UG-L AS SE	1	10.00	10.00									
70507	PHOSPHORUS, TOTAL ORTHO MG-L AS P	1	0.10	0.10									
71846	NITROGEN, AMMONIA DISS MG-L AS NH4	1	0.30	0.30									
71851	NITROGEN, NITRATE DISS MG-L AS NO3	1	0.10	0.10									

CORE-HOLE GS-M1 AQUIFER U METHOD 3 WET SAMPLES

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
71870 BROMIDE MG-L	1	0.10	0.10									
71890 MERCURY DISSOLVED UG-L AS HG	1	1.00	1.00									

END OF CORE-HOLE GS-M1 AQUIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 06-27-78 THRU 06-27-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

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CORE-HOLE GS-M1 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003& SAMPLE DEPTH, FEET	1	644.01	644.01									
00011& TEMPERATURE, WATER DEG. F	1	69.80	69.80									
01040 COPPER, DISSOLVED UG-L AS CU	1	1.00	1.00									
01056 MANGANESE, DISSOLVED UG-L AS MN	1	1.00	1.00									
01060 MOLYBDENUM, DISS UG-L AS MO	1	100.00	100.00									
01130 LITHIUM, DISSOLVED UG-L AS LI	1	1.00	1.00									

END OF CORE-HOLE GS-M1 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 06-27-78 THRU 06-27-78

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* -- ESTIMATE USING METHOD OF MOMENTS

& -- NO LOG TRANSFORM

VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

CORE-HOLE GS-M2 AQUIFER U METHOD 3 WET SAMPLES

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003&	SAMPLE DEPTH, FEET	1	218.60	218.60									
00011&	TEMPERATURE, WATER DEG. F	1	68.90	68.90									
00095	CONDUCTIVITY UMHOS AT 25 DEG C	1	1879.99	1879.99									
00340	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	1	10.00	10.00									
00400&	PH STANDARD UNITS	1	7.50	7.50									
00410	ALKALINITY, TOTAL MG-L AS CACO3	1	400.00	400.00									
00440	BICARBONATE ION MG-L AS HCO3	1	475.00	475.00									
00445	CARBONATE ION MG-L AS CO3	1	12.00	12.00									
00540	DISSOLVED SOLIDS ROE AT 178 DEG C, M	1	1270.00	1270.00									
00613	NITROGEN, NITRITE, DISSOLVED MG-L AS N	1	0.01	0.01									
00681	CARBON, ORGANIC, DISS MG-L AS C	1	3.80	3.80									
00720	CYANIDE MG-L AS CN	1	0.01	0.01									
00746	SULFIDE, DISSOLVED MG-L AS S	1	0.20	0.20									
00915	CALCIUM, DISSOLVED MG-L AS CA	1	44.00	44.00									
00925	MAGNESIUM, DISSOLVED MG-L AS MG	1	135.00	135.00									
00930	SODIUM, DISSOLVED MG-L AS NA	1	190.00	190.00									
00935	POTASSIUM, DISSOLVED MG-L AS K	1	2.00	2.00									

CORE-HOLE GS-M2 AQUIFER U METHOD 3

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00940	CHLORIDE, DISSOLVED MG-L AS CL	1	3.50	3.50									
00945	SULFATE, DISSOLVED MG-L AS SO4	1	615.00	615.00									
00950	FLUORIDE, TOTAL MG-L AS F	1	0.30	0.30									
00955	SILICA, DISSOLVED MG-L AS SIO2	1	8.00	8.00									
01000	ARSENIC, DISSOLVED UG-L AS AS	1	10.00	10.00									
01020	BORON, DISSOLVED UG-L AS B	1	100.00	100.00									
01025	CADMIUM, DISSOLVED UG-L AS CD	1	10.00	10.00									
01030	CHROMIUM, DISSOLVED UG-L AS CR	1	10.00	10.00									
01046	IRON, DISSOLVED UG-L AS FE	1	50.00	50.00									
01049	LEAD, DISSOLVED UG-L AS PB	1	10.00	10.00									
01080	STRONTIUM, DISSOLVED UG-L AS SR	1	4199.98	4199.98									
01090	ZINC, DISSOLVED UG-L AS ZN	1	10.00	10.00									
01106	ALUMINUM, DISSOLVED UG-L AS AL	1	400.00	400.00									
01145	SELENIUM, DISSOLVED UG-L AS SE	1	10.00	10.00									
70507	PHOSPHORUS, TOTAL ORTHO MG-L AS P	1	0.20	0.20									
71846	NITROGEN, AMMONIA DISS MG-L AS NH4	1	0.30	0.30									
71851	NITROGEN, NITRATE DISS MG-L AS NO3	1	0.10	0.10									

CORE-HOLE GS-M2 AQUIFER U METHOD 3 WET SAMPLES

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
71870 BROMIDE MG-L	1	0.10	0.10									
71890 MERCURY DISSOLVED UG-L AS HG	1	1.00	1.00									

END OF CORE-HOLE GS-M2 AQUIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 06-27-78 THRU 06-27-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

CORE-HOLE GS-M2 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES

PARAMETER DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003& SAMPLE DEPTH, FEET	1	218.60	218.60									
00011& TEMPERATURE, WATER DEG. F	1	68.90	68.90									
01056 MANGANESE, DISSOLVED UG-L AS MN	1	1.00	1.00									
01060 MOLYBDENUM, DISS UG-L AS MO	1	1.00	1.00									

END OF CORE-HOLE GS-M2 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 06-27-78 THRU 06-27-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

CORE-HOLE GS-M4 AQUIFER U METHOD 3

WET SAMPLES

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003&	SAMPLE DEPTH, FEET	1	510.00	510.00									
00011&	TEMPERATURE, WATER DEG. F	1	66.20	66.20									
00095	CONDUCTIVITY UMHOS AT 25 DEG C	1	1949.99	1949.99									
00340	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	1	23.00	23.00									
00400&	PH STANDARD UNITS	1	7.40	7.40									
00410	ALKALINITY, TOTAL MG-L AS CACO3	1	445.00	445.00									
00440	BICARBONATE ION MG-L AS HCO3	1	545.00	545.00									
00445	CARBONATE ION MG-L AS CO3	1	0.10	0.10									
00540	DISSOLVED SOLIDS ROE AT 178 DEG C, M	1	1300.00	1300.00									
00613	NITROGEN, NITRITE, DISSOLVED MG-L AS N	1	0.05	0.05									
00681	CARBON, ORGANIC, DISS MG-L AS C	1	4.50	4.50									
00720	CYANIDE MG-L AS CN	1	0.01	0.01									
00746	SULFIDE, DISSOLVED MG-L AS S	1	0.20	0.20									
00915	CALCIUM, DISSOLVED MG-L AS CA	1	48.00	48.00									
00925	MAGNESIUM, DISSOLVED MG-L AS MG	1	125.00	125.00									
00930	SODIUM, DISSOLVED MG-L AS NA	1	225.00	225.00									
00935	POTASSIUM, DISSOLVED MG-L AS K	1	2.70	2.70									

CORE-HOLE GS-M4 AQUIFER U METHOD 3

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00940	CHLORIDE, DISSOLVED MG-L AS CL	1	14.00	14.00									
00945	SULFATE, DISSOLVED MG-L AS SO4	1	595.00	595.00									
00950	FLUORIDE, TOTAL MG-L AS F	1	0.20	0.20									
00955	SILICA, DISSOLVED MG-L AS SIO2	1	8.00	8.00									
01000	ARSENIC, DISSOLVED UG-L AS AS	1	10.00	10.00									
01020	BORON, DISSOLVED UG-L AS B	1	100.00	100.00									
01025	CADMIUM, DISSOLVED UG-L AS CD	1	10.00	10.00									
01030	CHROMIUM, DISSOLVED UG-L AS CR	1	10.00	10.00									
01046	IRON, DISSOLVED UG-L AS FE	1	370.00	370.00									
01049	LEAD, DISSOLVED UG-L AS PB	1	10.00	10.00									
01080	STRONTIUM, DISSOLVED UG-L AS SR	1	2300.00	2300.00									
01090	ZINC, DISSOLVED UG-L AS ZN	1	100.00	100.00									
01106	ALUMINUM, DISSOLVED UG-L AS AL	1	300.00	300.00									
01145	SELENIUM, DISSOLVED UG-L AS SE	1	10.00	10.00									
01503	GROSS ALPHA, DISSOLVED PC-L	1	0.70	0.70									
70507	PHOSPHORUS, TOTAL ORTHO MG-L AS P	1	0.10	0.10									
71846	NITROGEN, AMMONIA DISS MG-L AS NH4	1	0.30	0.30									

CORE-HOLE GS-M4 AQUIFER U METHOD 3 WET SAMPLES

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	95 CONFIDENCE LIMITS ON MEAN LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
71851	NITROGEN, NITRATE DISS MG-L AS NO3	1	0.10	0.10									
71870	BROMIDE MG-L	1	0.10	0.10									
71890	MERCURY DISSOLVED UG-L AS HG	1	1.00	1.00									

END OF CORE-HOLE GS-M4 AQUIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 06-26-78 THRU 06-26-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

CORE-HOLE GS-M4 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES

PARAMETER	DESCRIPTION	NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95 CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25	50	75	90	95
00003&	SAMPLE DEPTH, FEET	1	510.00	510.00									
00011&	TEMPERATURE, WATER DEG. F	1	66.20	66.20									
01056	MANGANESE, DISSOLVED UG-L AS MN	1	10.00	10.00									

END OF CORE-HOLE GS-M4 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 06-26-78 THRU 06-26-78

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* -- ESTIMATE USING METHOD OF MOMENTS
& -- NO LOG TRANSFORM
VALUES OF 99999.0 ARE MAJOR CONCENTRATIONS

APPENDIX 5-2.5

DEEP OIL SHALE AQUIFER WATER QUALITY - RANGES AND MEANS

WATER QUALITY ANALYSIS SUMMARY
SAMPLE ITEM RANGE AND AVERAGE

ITEM	LOWER AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	UPPER AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
WET										
01106 ALUM	**********	0.0	0.0	0	0.0	0.200	0.400	0.350	6	0.084
71846 AMMO	**********	0.0	0.0	0	0.0	-0.300	1.400	0.280	5	0.626
01000 ARSE	**********	0.0	0.0	0	0.0	-0.010	-0.010	0.0	6	0.0
00440 BICA	**********	0.0	0.0	0	0.0	260.000	545.000	388.333	6	107.781
01025 CADM	**********	0.0	0.0	0	0.0	-0.010	0.010	0.008	6	0.004
00915 CALC	**********	0.0	0.0	0	0.0	8.200	48.000	27.200	6	15.603
00445 CARB	**********	0.0	0.0	0	0.0	-0.100	96.000	42.000	6	37.566
00940 CHLO	**********	0.0	0.0	0	0.0	3.500	18.000	9.833	6	5.733
01030 CHRO	**********	0.0	0.0	0	0.0	-0.010	0.010	0.003	6	0.005
01040 COPP	**********	0.0	0.0	0	0.0	-0.100	-0.100	0.0	1	0.0
00950 FLUO	**********	0.0	0.0	0	0.0	0.200	4.700	1.267	6	1.745
71830 HYDR	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01046 IRON	**********	0.0	0.0	0	0.0	-0.050	0.370	0.062	6	0.151
01049 LEAD	**********	0.0	0.0	0	0.0	-0.010	-0.010	0.0	6	0.0
00925 MAGN	**********	0.0	0.0	0	0.0	5.300	135.000	67.217	6	55.949
71890 MERC	**********	0.0	0.0	0	0.0	-0.001	-0.001	0.0	6	0.0

71851	NITR	**********	0.0	0.0	0	0.0	-0.100	0.200	0.083	6	0.075	
70507	PHOS	**********	0.0	0.0	0	0.0	-0.100	-0.200	0.0	6	0.0	
00935	POTA	**********	0.0	0.0	0	0.0	2.000	4.000	2.650	6	0.734	
01145	SELE	**********	0.0	0.0	0	0.0	-0.010	-0.010	0.0	6	0.0	
00955	SIL	**********	0.0	0.0	0	0.0	2.000	8.000	5.167	6	2.757	
00930	SODI	**********	0.0	0.0	0	0.0	190.000	610.000	285.000	6	160.748	
00945	SULF	**********	0.0	0.0	0	0.0	175.000	1100.000	537.500	6	335.049	
00746	SULF	**********	0.0	0.0	0	0.0	-0.200	2.200	0.500	6	0.856	
01090	ZINC	**********	0.0	0.0	0	0.0	-0.010	-0.100	0.0	6	0.0	
01503	GROS	**********	0.0	0.0	0	0.0	0.700	8.700	4.700	2	5.657	
03501	GROS	**********	0.0	0.0	0	0.0	0.900	0.900	0.900	1	0.0	
00900	HARD	**********	0.0	0.0	0	0.0	160.000	160.000	160.000	1	0.0	
00400	PH	**********	0.0	0.0	0	0.0	7.200	8.000	7.517	6	0.271	
00095	COND	**********	0.0	0.0	0	0.0	1090.000	2550.000	1724.167	6	540.670	
00540	DIS	**********	0.0	0.0	0	0.0	545.000	2170.000	1184.167	6	577.360	
01056	MANG	**********	0.0	0.0	0	0.0	0.100	0.100	0.100	1	0.0	
00410	ALKA	**********	0.0	0.0	0	0.0	295.000	445.000	353.333	6	58.708	
00720	CYAN	**********	0.0	0.0	0	0.0	-0.010	-0.010	0.0	6	0.0	
01020	BORO	**********	0.0	0.0	0	0.0	-0.100	0.100	0.050	6	0.055	
01005	BARI	**********	0.0	0.0	0	0.0	0.200	0.200	0.200	1	0.0	
01075	SILV	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0	
01065	NICK	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0	
01130	LITH	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0	
00681	DOC	**********	0.0	0.0	0	0.0	1.600	6.000	3.700	6	1.575	
00613	NITR	**********	0.0	0.0	0	0.0	-0.010	0.090	0.023	6	0.038	
71870	BROM	**********	0.0	0.0	0	0.0	-0.100	0.300	0.050	6	0.122	
00340	C.O.	**********	0.0	0.0	0	0.0	10.000	38.000	21.333	6	10.463	
32730	PHEN	**********	0.0	0.0	0	0.0	0.004	0.004	0.004	1	0.0	
00625	KJEL	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0	
01010	BERY	**********	0.0	0.0	0	0.0	-0.010	-0.010	0.0	1	0.0	
01060	MOLY	**********	0.0	0.0	0	0.0	-0.010	-0.010	0.0	1	0.0	
01080	STRO	**********	0.0	0.0	0	0.0	-0.010	4.200	1.750	6	1.548	
01085	VANA	**********	0.0	0.0	0	0.0	-0.010	-0.010	0.0	1	0.0	

WATER QUALITY ANALYSIS SUMMARY
SAMPLE ITEM RANGE AND AVERAGE

ITEM		LOWER AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	UPPER AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
00660	ORTH	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
00608	AMMO	**********	0.0	0.0	0	0.0	0.200	0.200	0.200	1	0.0
00681	DIS-	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
38260	MBAS	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
31501	TOT	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
31615	FEC	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
00310	5-DA	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
SPECTROGRAPHIC											
01006	ALUM	**********	0.0	0.0	0	0.0	0.010	0.010	0.010	1	0.0
01095	ANTI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01000	ARSE	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01005	BARI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01010	BERY	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01015	BISM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01020	BORO	**********	0.0	0.0	0	0.0	0.050	0.050	0.050	1	0.0
01025	CADM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
00915	CALC	**********	0.0	0.0	0	0.0	99999.000	99999.000	0.0	0	0.0
	CERI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	CESI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01030	CHRO	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01035	COBO	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0

WATER QUALITY ANALYSIS SUMMARY
SAMPLE ITEM RANGE AND AVERAGE

ITEM		LOWER AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	UPPER AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
	COLU	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01040	COPP	**********	0.0	0.0	0	0.0	0.001	0.001	0.001	3	0.0
	DYSP	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	ERBI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	EURO	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	GADO	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01120	GALL	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01125	GERM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	GOLD	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	HAFN	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	HOLM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	INDI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	IRID	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01046	IRON	**********	0.0	0.0	0	0.0	0.010	0.010	0.010	1	0.0
	LANT	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01049	LEAD	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01130	LITH	**********	0.0	0.0	0	0.0	0.001	0.001	0.001	2	0.0
	LUTE	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
00925	MAGN	**********	0.0	0.0	0	0.0	5.000	5.000	5.000	1	0.0
01056	MANG	**********	0.0	0.0	0	0.0	0.001	0.010	0.005	6	0.005
71890	MERC	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01060	MOLY	**********	0.0	0.0	0	0.0	0.001	0.100	0.028	4	0.048
	NEOD	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01065	NICK	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	OSMI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	PALL	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	PLAT	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
00935	POTA	**********	0.0	0.0	0	0.0	0.100	0.100	0.100	1	0.0
	PRAS	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
09503	RADI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	RHEN	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	RHOD	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01135	RUBI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	RUTH	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	SAMA	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	SCAN	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01145	SELE	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
00955	SILI	**********	0.0	0.0	0	0.0	10.000	10.000	10.000	1	0.0
01075	SILV	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
00930	SODI	**********	0.0	0.0	0	0.0	99999.000	99999.000	0.0	0	0.0
01080	STRO	**********	0.0	0.0	0	0.0	0.010	0.010	0.010	1	0.0
	TANT	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	TERB	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	THAL	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	THOR	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	THUL	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01100	TIN	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01150	TITA	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	TUNG	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
22703	URAN	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01085	VANA	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	YTTE	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	YTTR	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01090	ZINC	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01160	ZIRC	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0

SAMPLES IN AQUIFER = 0

SAMPLES IN AQUIFER = 6

WATER QUALITY ANALYSIS SUMMARY
SAMPLE ITEM RANGE AND AVERAGE

ITEM		COMBINED AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	A AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
WET											
01106	ALUM	**********	0.0	0.0	0	0.0	-0.100	2.600	0.381	27	0.603
71846	AMMO	**********	0.0	0.0	0	0.0	-0.100	2.500	0.462	19	0.623
01000	ARSE	**********	0.0	0.0	0	0.0	-0.010	-0.010	0.0	19	0.0
00440	BICA	**********	0.0	0.0	0	0.0	160.000	1100.000	567.889	45	146.619
01025	CADM	**********	0.0	0.0	0	0.0	-0.010	-0.010	0.0	27	0.0
00915	CALC	**********	0.0	0.0	0	0.0	28.000	135.000	84.633	49	27.237
00445	CARB	**********	0.0	0.0	0	0.0	-0.100	84.000	5.143	49	15.000
00940	CHLO	**********	0.0	0.0	0	0.0	2.700	185.000	22.553	49	27.297
01030	CHRO	**********	0.0	0.0	0	0.0	-0.010	0.030	0.003	27	0.007
01040	COPP	**********	0.0	0.0	0	0.0	-0.100	0.100	0.012	8	0.035
00950	FLUO	**********	0.0	0.0	0	0.0	0.100	1.000	0.304	49	0.183
71830	HYDR	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01046	IRON	**********	0.0	0.0	0	0.0	-0.050	0.700	0.041	34	0.143
01049	LEAD	**********	0.0	0.0	0	0.0	-0.010	110.000	4.101	27	21.164
00925	MAGN	**********	0.0	0.0	0	0.0	19.000	260.000	94.438	48	46.372
71890	MERC	**********	0.0	0.0	0	0.0	-0.001	0.017	0.002	27	0.004
71851	NITR	**********	0.0	0.0	0	0.0	-0.100	13.400	4.031	45	3.384
70507	PHOS	**********	0.0	0.0	0	0.0	-0.100	0.400	0.094	35	0.116
00935	POTA	**********	0.0	0.0	0	0.0	0.200	33.000	3.359	49	4.489
01145	SELE	**********	0.0	0.0	0	0.0	-0.010	-0.010	0.0	27	0.0
00955	SIL	**********	0.0	0.0	0	0.0	8.100	33.000	17.433	46	7.362
00930	SODI	**********	0.0	0.0	0	0.0	74.000	670.000	207.878	49	96.708
00945	SULF	**********	0.0	0.0	0	0.0	104.000	1560.000	501.735	49	210.390
00746	SULF	**********	0.0	0.0	0	0.0	-0.010	1.600	0.270	20	0.589
01090	ZINC	**********	0.0	0.0	0	0.0	-0.100	0.300	0.081	27	0.083
01503	GROS	**********	0.0	0.0	0	0.0	2.000	40.000	8.729	17	8.968
03501	GROS	**********	0.0	0.0	0	0.0	3.000	44.000	20.833	6	14.689
00900	HARD	**********	0.0	0.0	0	0.0	335.000	760.000	649.750	16	121.925
00400	PH	**********	0.0	0.0	0	0.0	6.000	8.300	7.302	41	0.718
00095	COND	**********	0.0	0.0	0	0.0	860.000	3820.000	1560.484	31	575.665
00540	DIS	**********	0.0	0.0	0	0.0	-0.050	3140.000	1207.571	35	476.490
01056	MANG	**********	0.0	0.0	0	0.0	-0.050	0.800	0.192	17	0.238
00410	ALKA	**********	0.0	0.0	0	0.0	185.000	900.000	471.828	46	112.415
00720	CYAN	**********	0.0	0.0	0	0.0	-0.010	-0.010	0.0	21	0.0
01020	BORO	**********	0.0	0.0	0	0.0	-0.100	3.400	0.259	34	0.602
01005	BARI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01075	SILV	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01065	NICK	**********	0.0	0.0	0	0.0	0.020	0.030	0.027	4	0.005
01130	LITH	**********	0.0	0.0	0	0.0	-0.100	-0.100	0.0	8	0.0
00681	DOC	**********	0.0	0.0	0	0.0	4.200	22.000	8.662	37	3.434
00613	NITR	**********	0.0	0.0	0	0.0	-0.010	0.200	0.023	42	0.047
71870	BROM	**********	0.0	0.0	0	0.0	-0.010	-0.100	0.0	18	0.0
00340	C.O.	**********	0.0	0.0	0	0.0	-0.010	390.000	72.396	24	122.916
32730	PHEN	**********	0.0	0.0	0	0.0	-0.001	0.020	0.002	17	0.006
00625	KJEL	**********	0.0	0.0	0	0.0	-0.100	16.000	2.433	15	3.992
01010	BERY	**********	0.0	0.0	0	0.0	-0.010	0.100	0.011	9	0.033
01060	MOLY	**********	0.0	0.0	0	0.0	-0.100	-0.100	0.0	8	0.0
01080	STRO	**********	0.0	0.0	0	0.0	-0.100	4.800	1.759	27	1.363
01085	VANA	**********	0.0	0.0	0	0.0	-0.100	-0.100	0.0	2	0.0

COMBINED AQUIFER A AQUIFER

ITEM		COMBINED AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	A AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
00660	ORTH	**********	0.0	0.0	0	0.0	-0.100	0.400	0.056	16	0.109
00608	AMMO	**********	0.0	0.0	0	0.0	-0.100	0.300	0.162	8	0.092
00681	DIS-	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
38260	MBAS	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
31501	TOT	**********	0.0	0.0	0	0.0	0.010	0.010	0.010	1	0.0
31615	FEC	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
00310	5-DA	**********	0.0	0.0	0	0.0	-0.100	-0.100	0.0	1	0.0
SPECTROGRAPHIC											
01006	ALUM	**********	0.0	0.0	0	0.0	0.001	1.000	0.199	8	0.366
01095	ANTI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01000	ARSE	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01005	BARI	**********	0.0	0.0	0	0.0	0.010	0.010	0.010	5	0.0
01010	BERY	**********	0.0	0.0	0	0.0	-0.010	-0.100	0.0	4	0.0
01015	BISM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01020	BORO	**********	0.0	0.0	0	0.0	0.500	0.500	0.500	8	0.0
01025	CADM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
00915	CALC	**********	0.0	0.0	0	0.0	99999.000	99999.000	0.0	0	0.0
	CERI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	CESI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01030	CHRO	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01035	COBU	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	COLU	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01040	COPP	**********	0.0	0.0	0	0.0	0.001	0.010	0.002	20	0.003
	DYSP	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	ERBI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	EURO	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	GADO	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01120	GALL	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01125	GERM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	GOLD	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	HAFN	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	HOLM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	INDI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	IRID	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01046	IRON	**********	0.0	0.0	0	0.0	0.001	0.200	0.059	7	0.096
	LANT	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01049	LEAD	**********	0.0	0.0	0	0.0	0.001	0.010	0.004	4	0.004
01130	LITH	**********	0.0	0.0	0	0.0	0.001	0.001	0.001	11	0.0
	LUTE	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
00925	MAGN	**********	0.0	0.0	0	0.0	99999.000	99999.000	0.0	0	0.0
01056	MANG	**********	0.0	0.0	0	0.0	0.001	0.200	0.049	18	0.069
71890	MERC	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01060	MOLY	**********	0.0	0.0	0	0.0	0.001	0.050	0.009	20	0.011
	NEOD	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01065	NICK	**********	0.0	0.0	0	0.0	0.001	0.001	0.001	1	0.0
	OSMI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	PALL	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	PLAT	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
00935	POTA	**********	0.0	0.0	0	0.0	0.010	0.100	0.049	7	0.048
	PRAS	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0

ITEM		COMBINED AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	A AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
09503	RADI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0

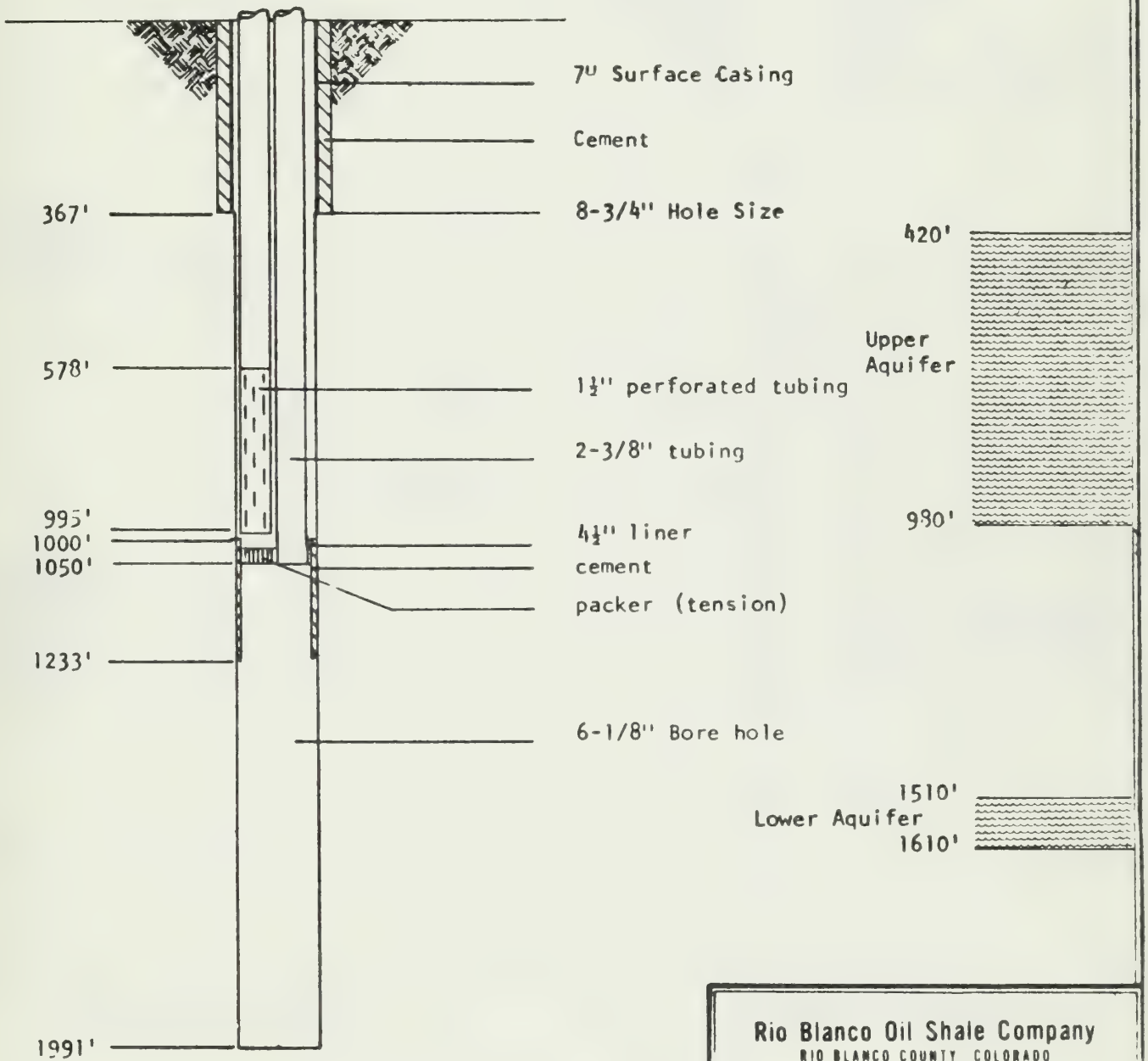
	RHEN	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	RHOD	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01135	RUBI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	RUTH	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	SAMA	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	SCAN	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01145	SELE	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
00955	SILI	**********	0.0	0.0	0	0.0	2.000	5.000	3.125	8	1.553
01075	SILV	**********	0.0	0.0	0	0.0	0.001	0.010	0.007	3	0.005
00930	SODI	**********	0.0	0.0	0	0.0	5.000	10.000	8.750	8	2.315
01080	STRO	**********	0.0	0.0	0	0.0	0.001	0.100	0.086	14	0.034
	TANT	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	TERB	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	THAL	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	THOR	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	THUL	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01100	TIN	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01150	TITA	**********	0.0	0.0	0	0.0	0.010	0.500	0.173	3	0.283
	TUNG	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
22703	URAN	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01085	VANA	**********	0.0	0.0	0	0.0	0.001	0.001	0.001	1	0.0
	YTTE	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
	YTTR	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01090	ZINC	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
01160	ZIRC	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0

SAMPLES IN AQUIFER = 0

SAMPLES IN AQUIFER = 51

APPENDIX 5-2.6

DEEP OIL SHALE AQUIFER WELL COMPLETION DIAGRAMS

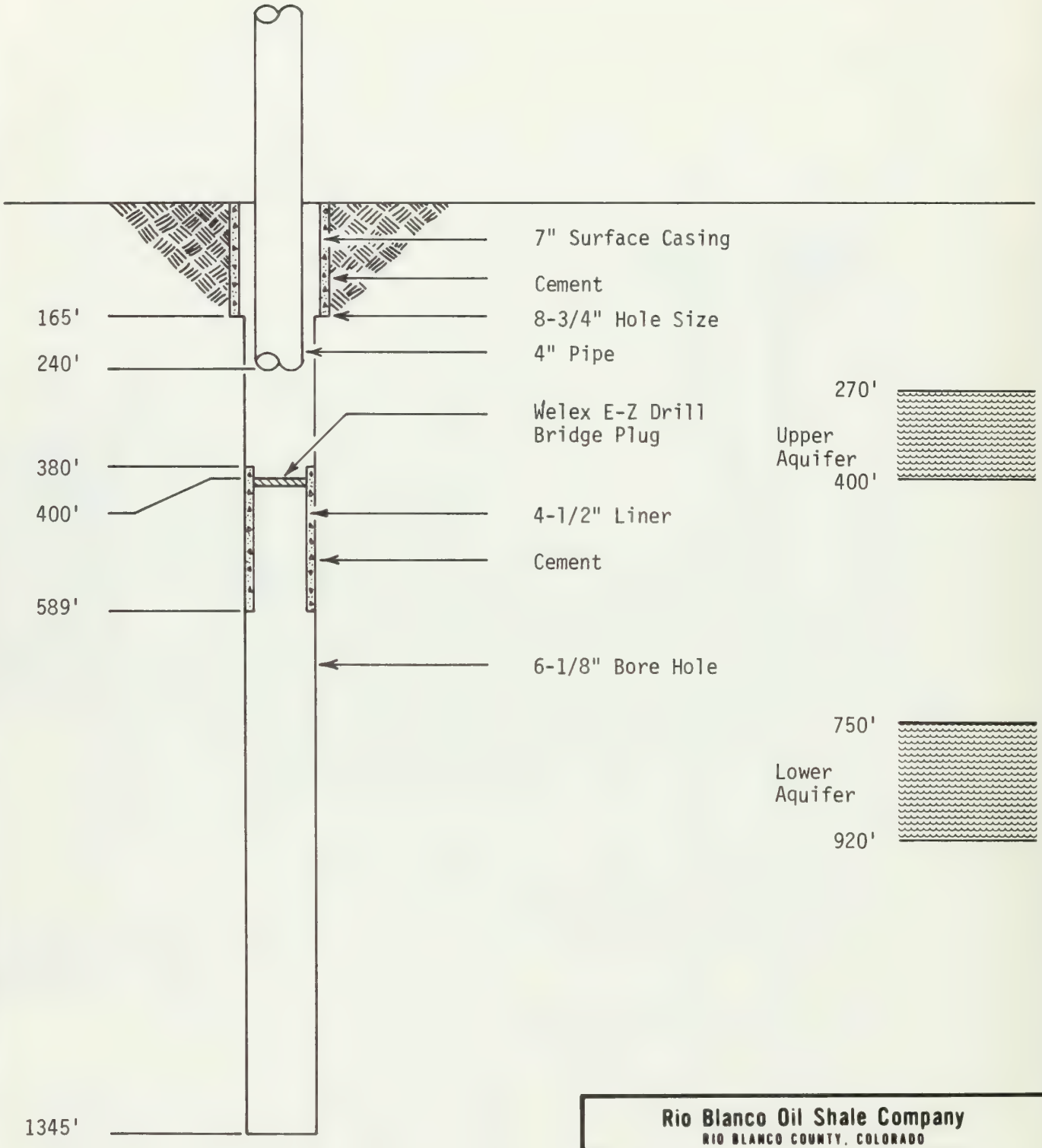


Rio Blanco Oil Shale Company
RIO BLANCO COUNTY COLORADO

HOLE AM-2A DEPTH 1991
March 9, 1979

Revision 1.0

VERITICAL SCALE 1"- 300'
HORIZONTAL SCALE 1"-1'0"



HORIZONTAL SCALE: 1" = 1'-0"
VERTICAL SCALE: 1" = 200'

Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

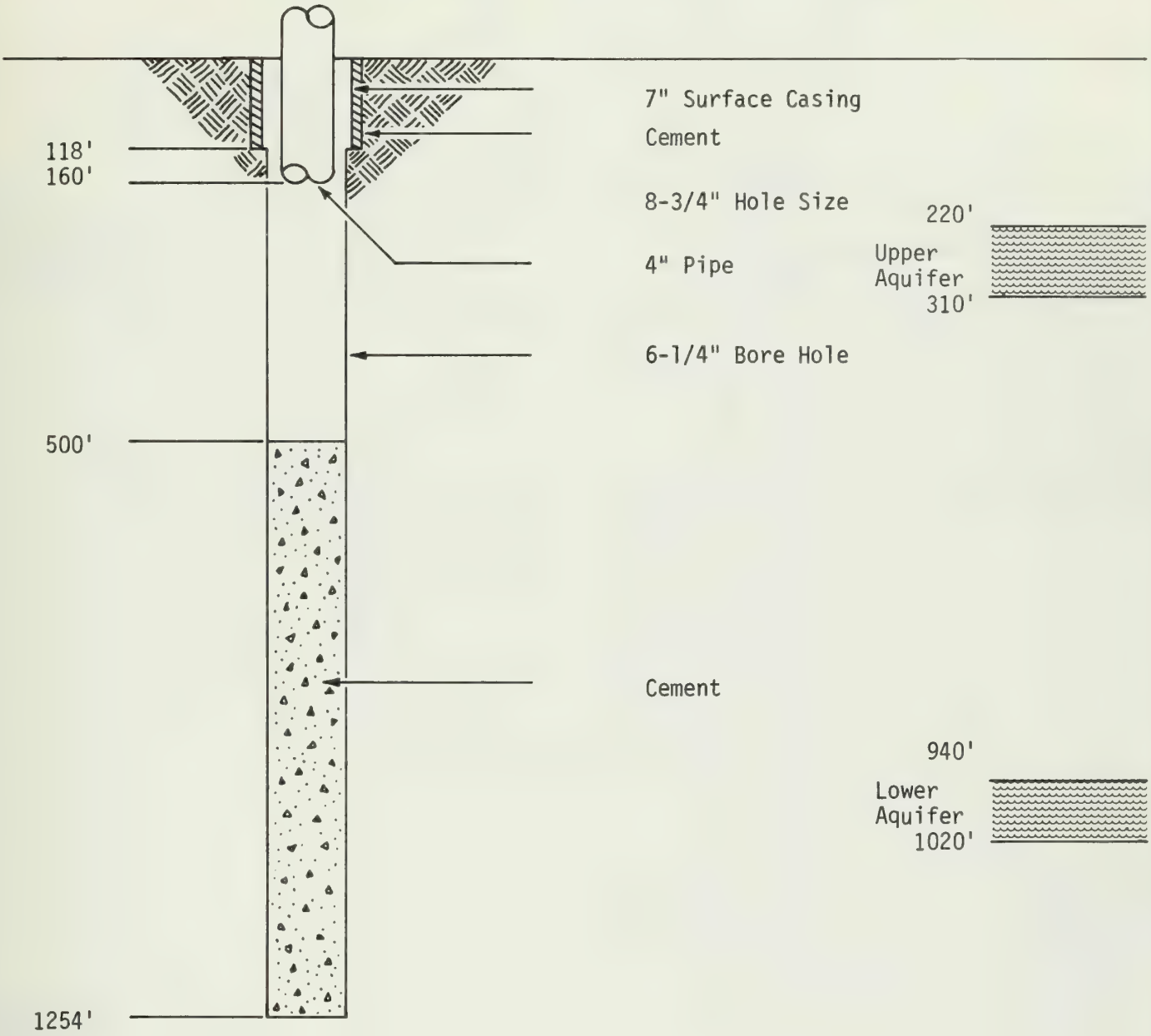
Hole AM-3 Depth 1345'

March 9, 1979

DRAWN BY:	SCALE	FIGURE
DESIGN BY	DATE	
APPROVED BY	DRAWING NO.	

Revision 1.0

FILE



HORIZONTAL SCALE: 1" = 1'-0"
VERTICAL SCALE: 1" = 200'

Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

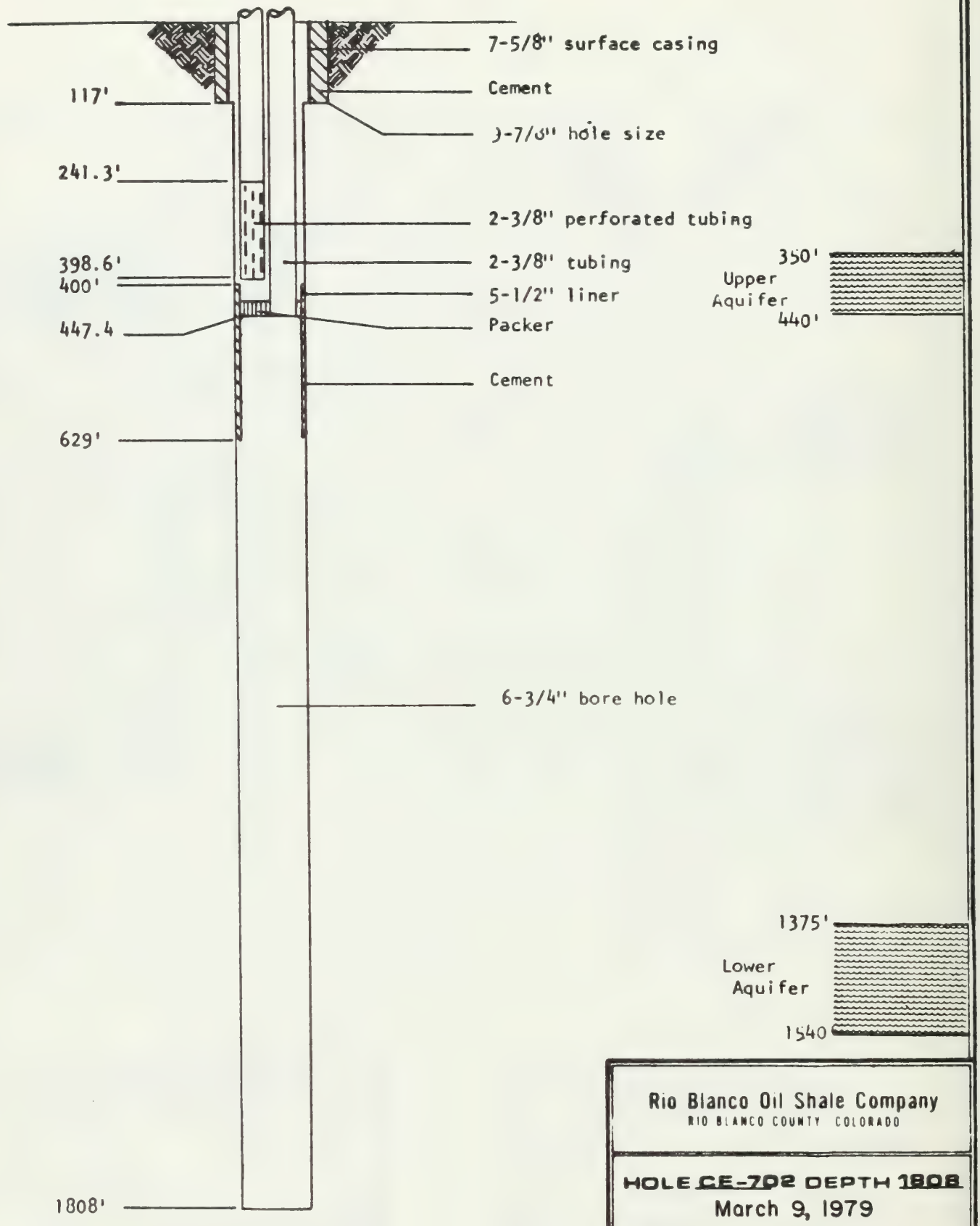
Hole CE-701 Depth 1254'

March 9, 1979

DRAWN BY	SCALE	FIGURE
DESIGN BY	DATE	
APPROVED BY	DRAWING NO.	

Revision 1.0

FILE



VERITICAL SCALE 1"-200'

HORIZONTAL SCALE 1'-1'-0"

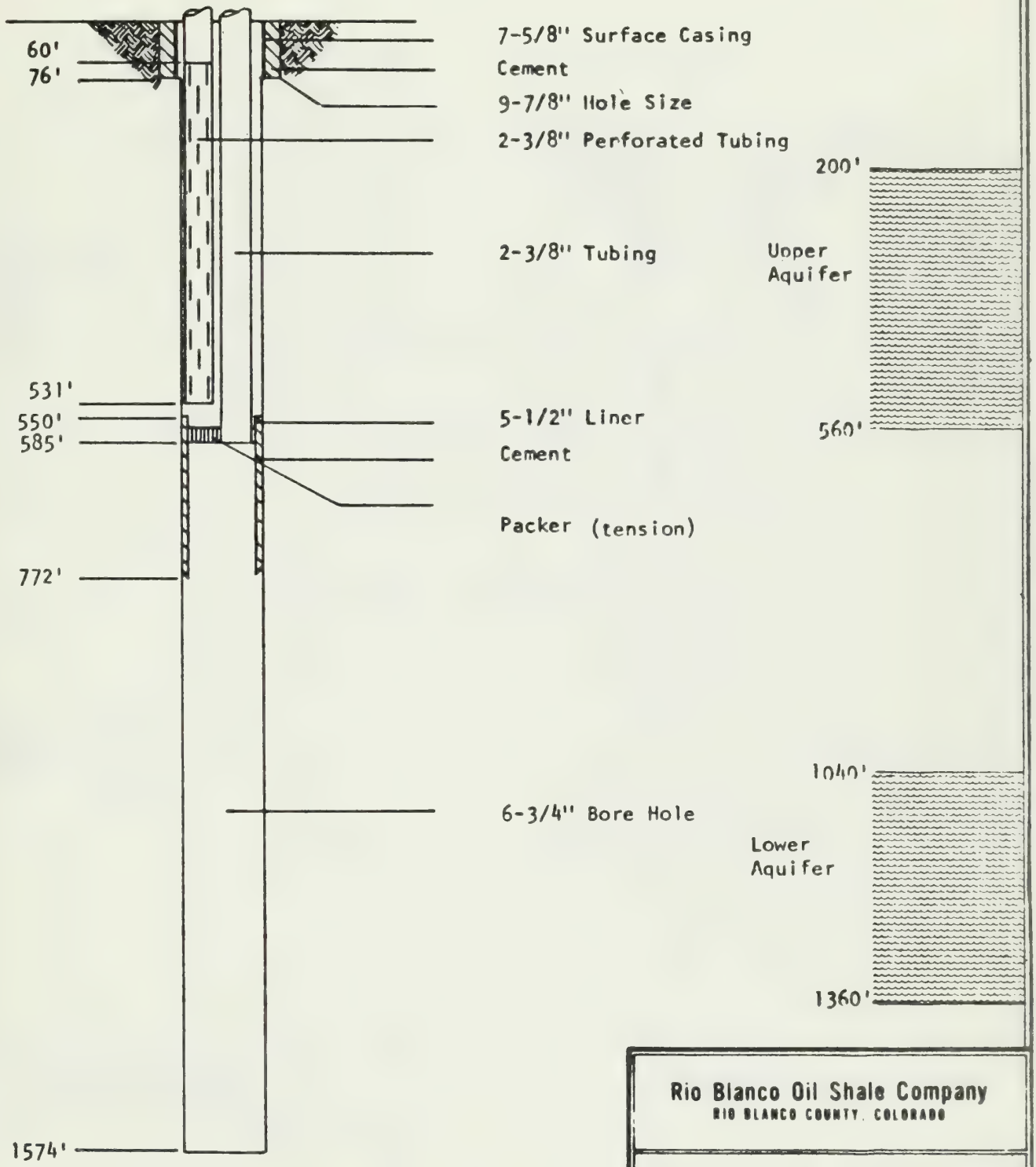
Rio Blanco Oil Shale Company

RIO BLANCO COUNTY COLORADO

HOLE CE-702 DEPTH 1808

March 9, 1979

Revision 1.0



VERITICAL SCALE 1"- 200'

HORIZONTAL SCALE 1"-1-0"

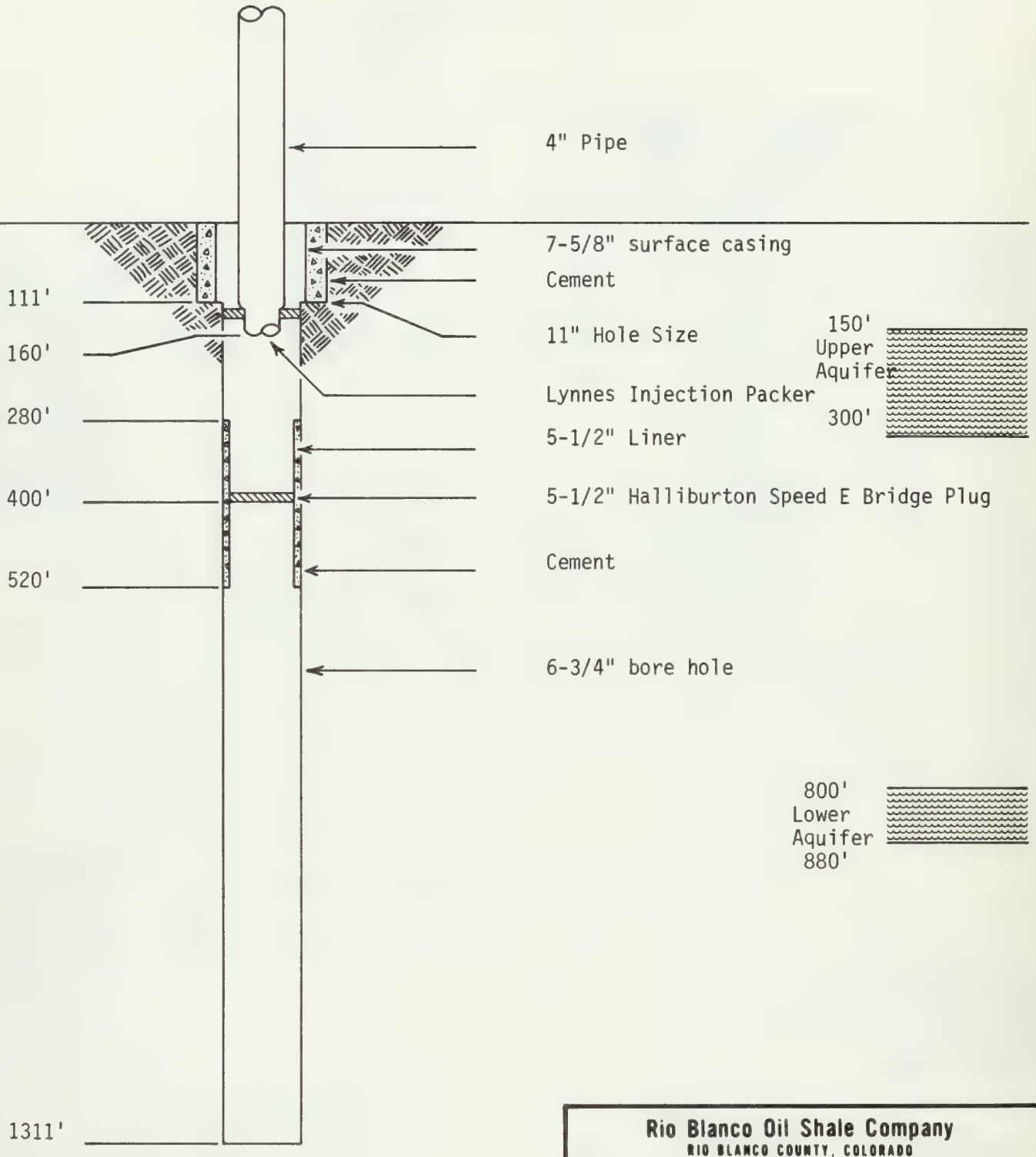
Rio Blanco Oil Shale Company

RIO BLANCO COUNTY, COLORADO

HOLE CE-707 DEPTH 1574'

March 9, 1979

Revision 1.0



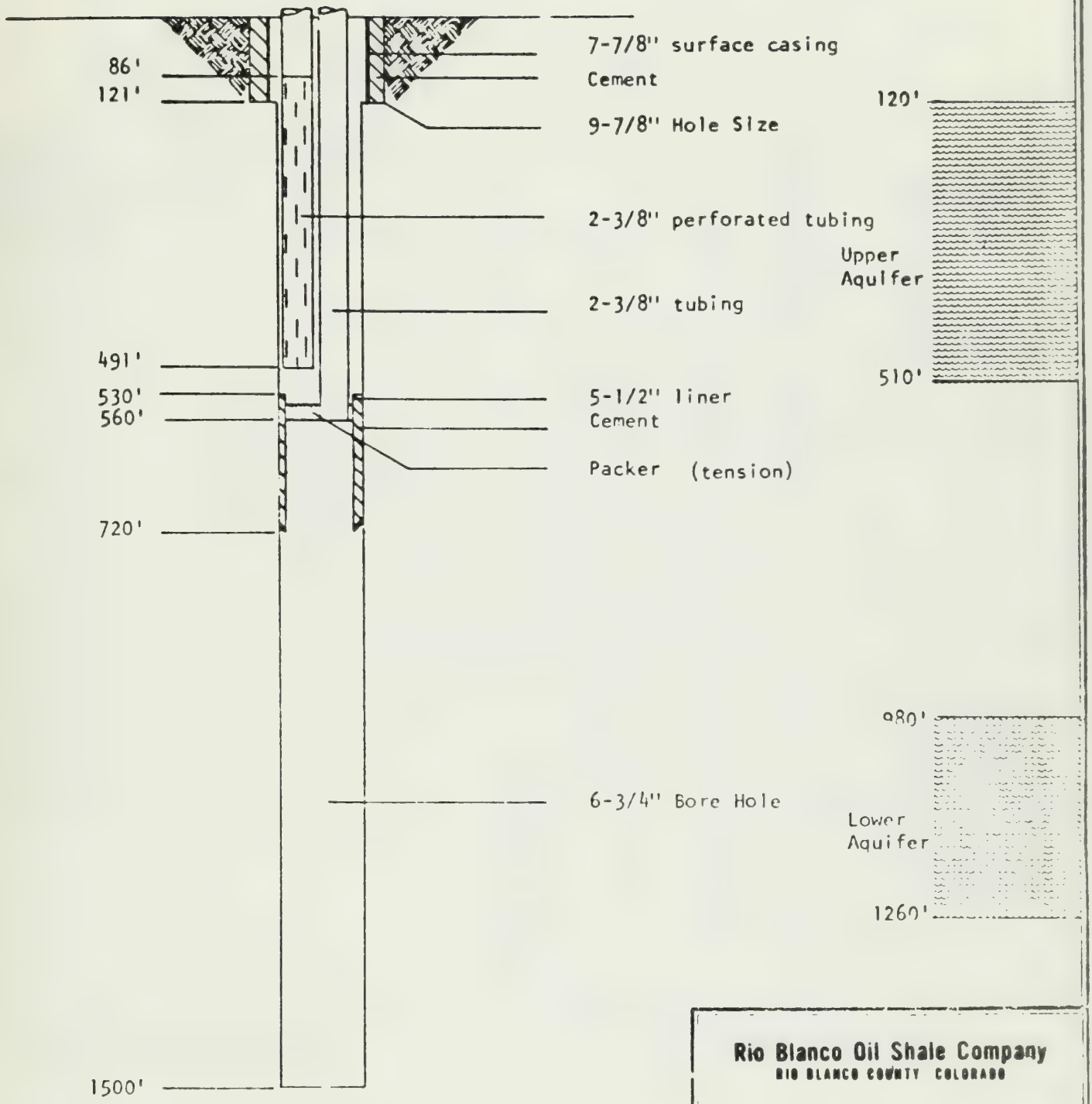
HORIZONTAL SCALE: 1" = 1'-0"
VERTICAL SCALE: 1" = 200'

Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

Hole CE-708 Depth 1311'

March 9, 1979

DRAWN BY	SCALE	FIGURE
DESIGN BY	DATE	
APPROVED BY	DRAWING NO.	
		FILE

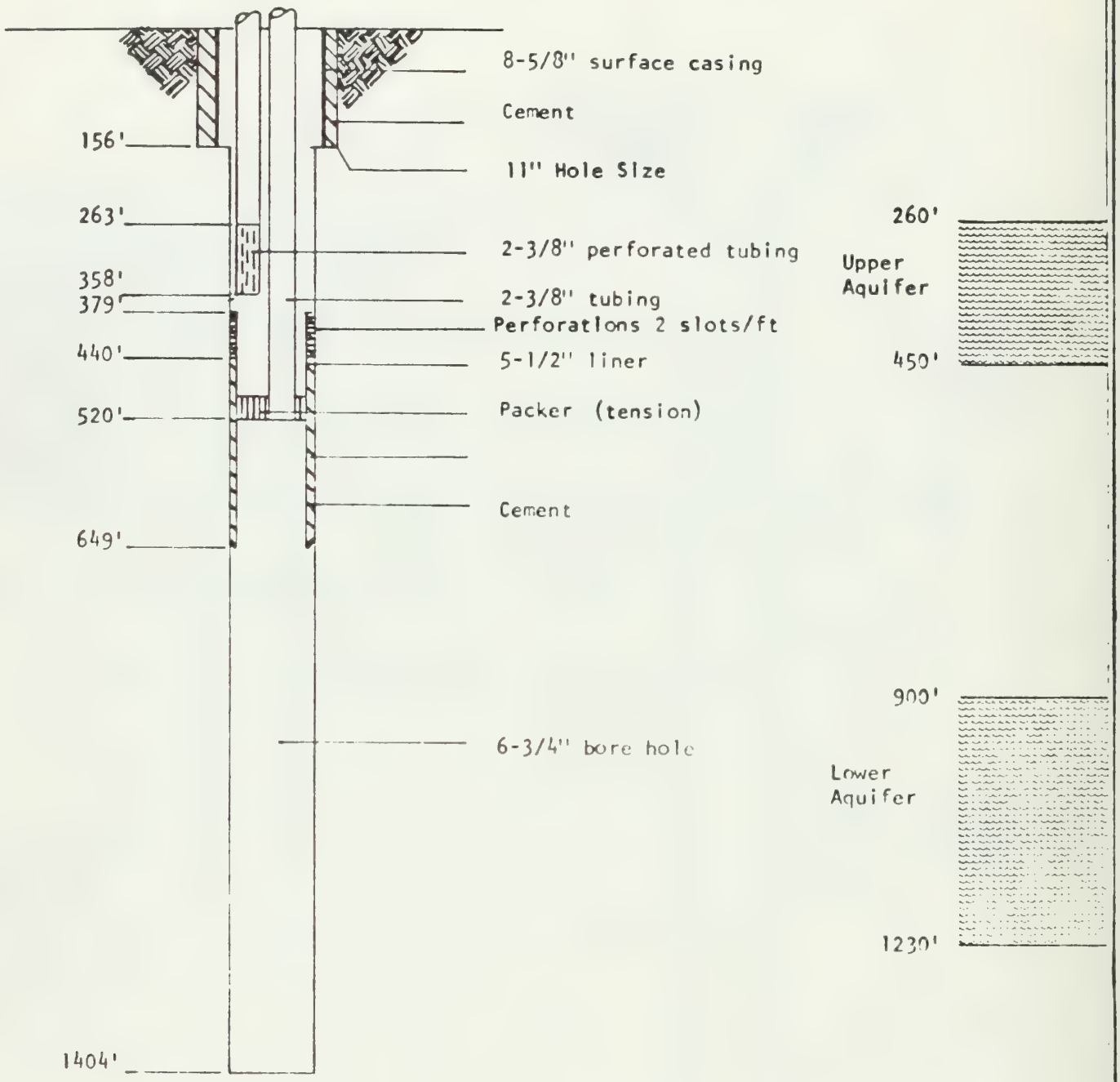


Rio Blanco Oil Shale Company
RIO BLANCO COUNTY COLORADO

HOLE CE-703 DEPTH 1500'
March 9, 1979

Revision 1.0

VERITICAL SCALE 1"-200'
HORIZONTAL SCALE 1"-1-0"



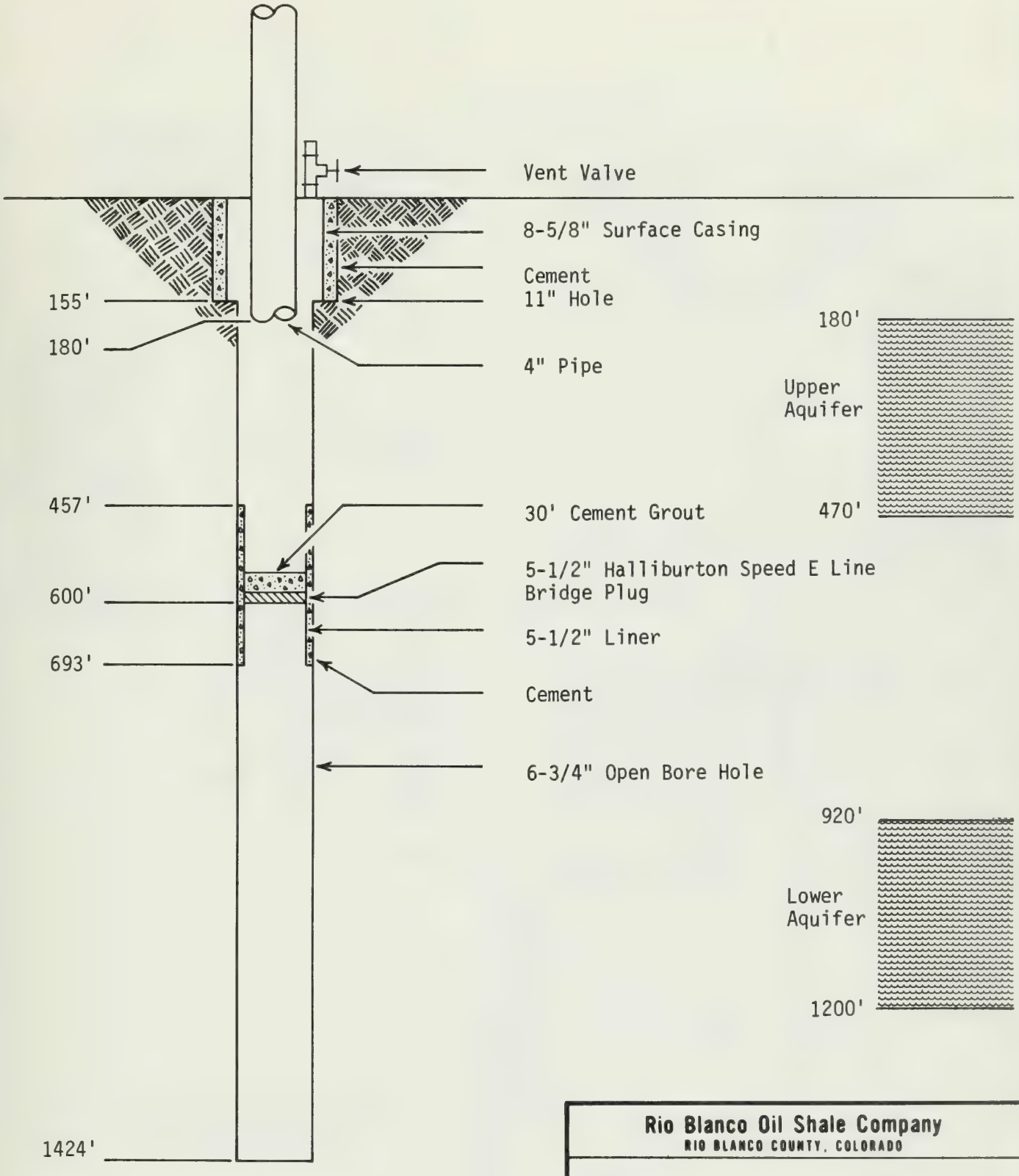
VERITICAL SCALE 1" - 200'

HORIZONTAL SCALE 1"-1-0"

Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

HOLE GS-1 DEPTH 1404
March 9, 1979

Revision 1.0



HORIZONTAL SCALE: 1" = 1'-0"
VERTICAL SCALE: 1" = 200'

Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

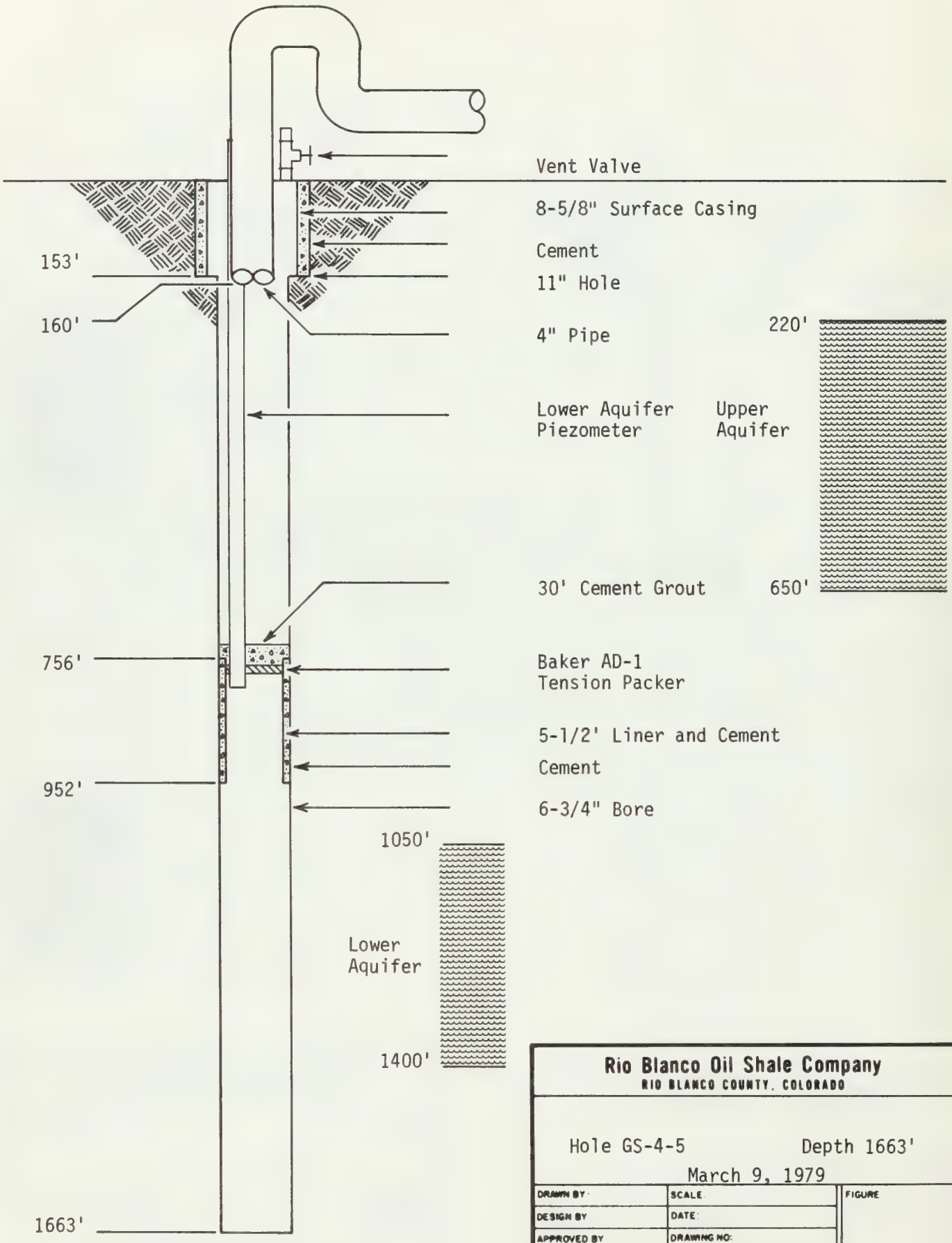
Hole GS-2-3 Depth 1424'

March 9, 1979

DRAWN BY:	SCALE:	FIGURE
DESIGN BY	DATE:	
APPROVED BY	DRAWING NO:	

Revision 1.0

FILE:



HORIZONTAL SCALE: 1" = 1'-0"
VERTICAL SCALE: 1" = 200'

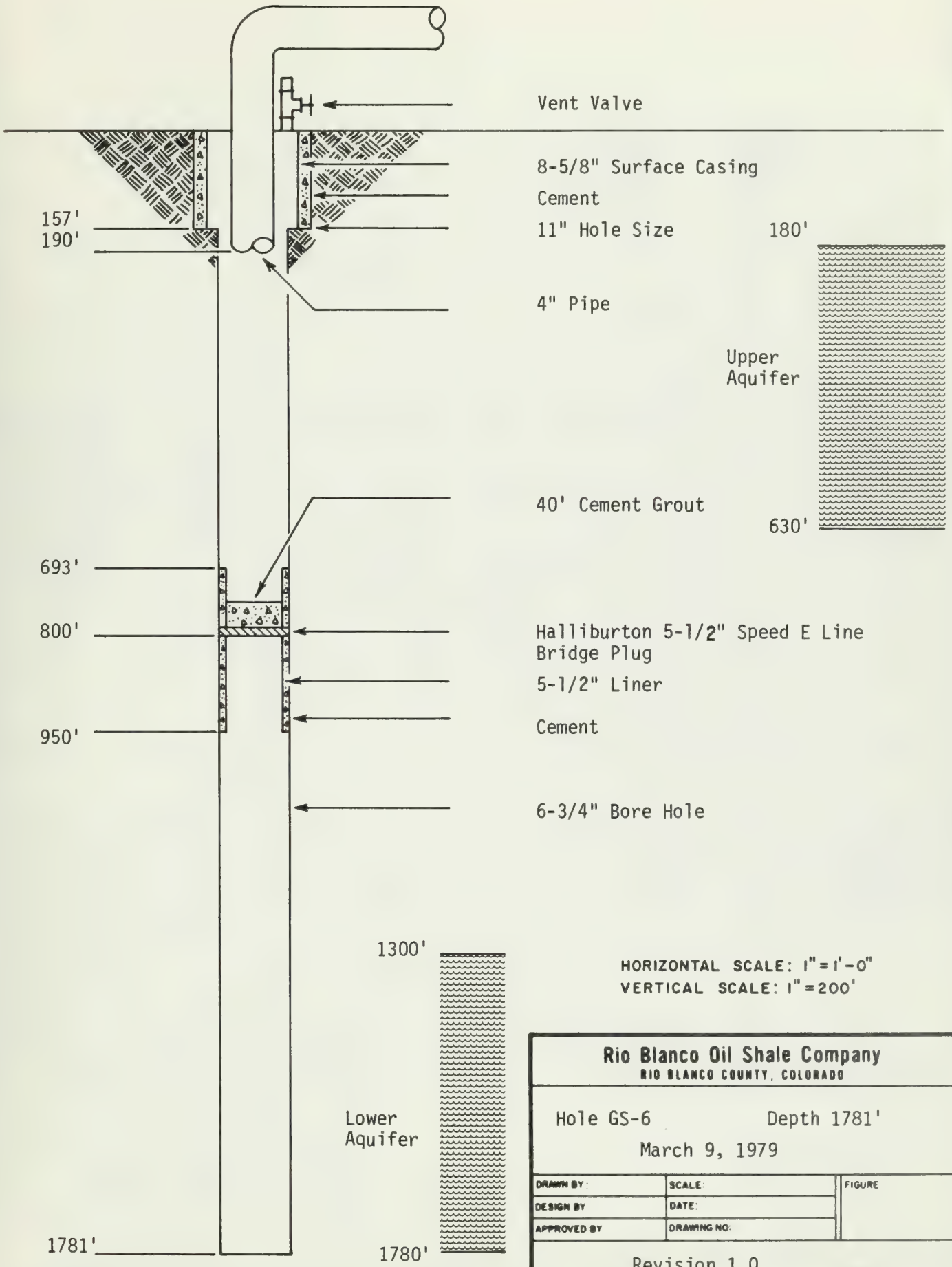
Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

Hole GS-4-5 Depth 1663'

March 9, 1979

DRAWN BY:	SCALE:	FIGURE
DESIGN BY	DATE:	
APPROVED BY	DRAWING NO:	

Revision 1.0 FILE:



HORIZONTAL SCALE: 1"=1'-0"
VERTICAL SCALE: 1"=200'

Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

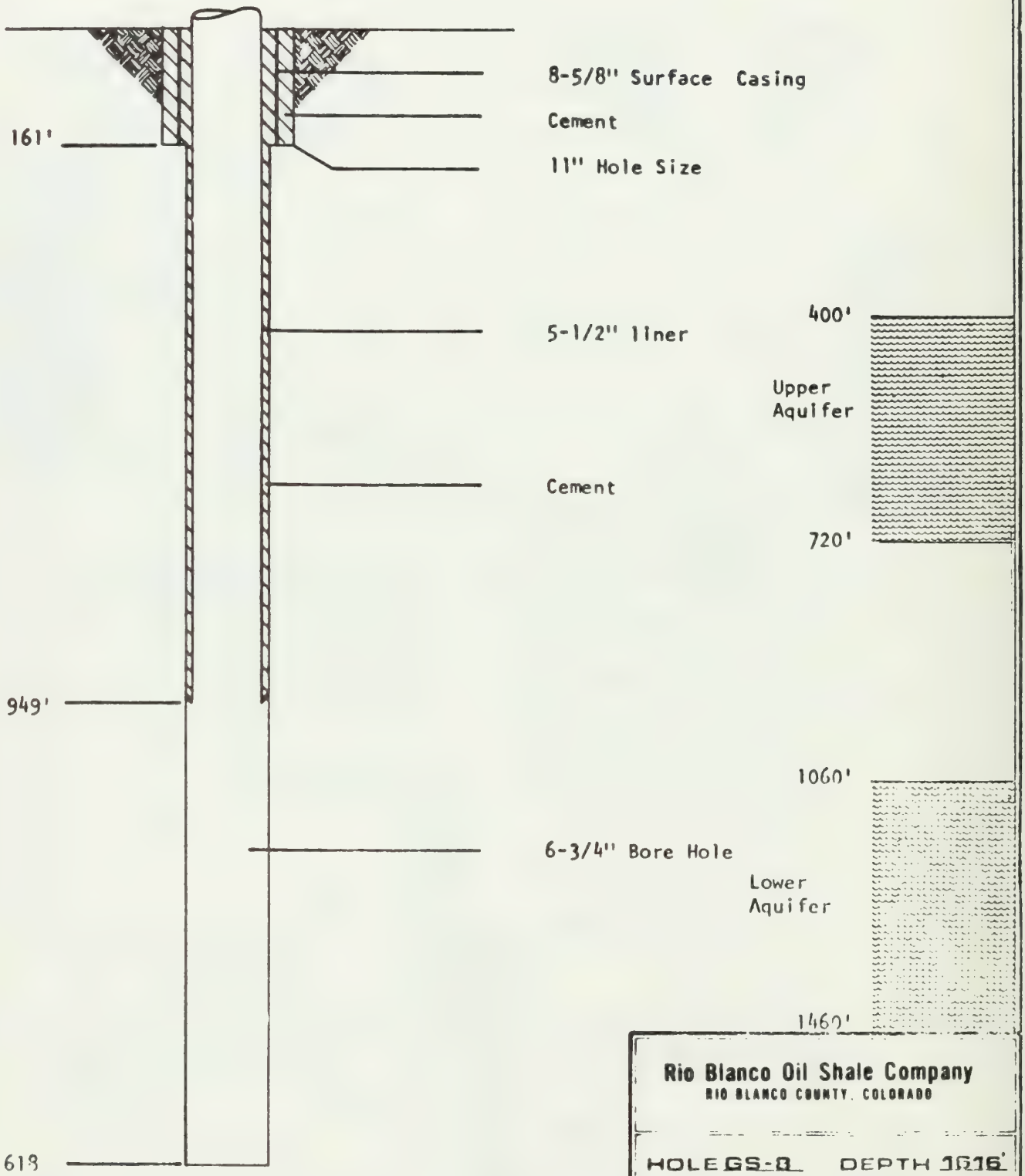
Hole GS-6 Depth 1781'

March 9, 1979

DRAWN BY:	SCALE:	FIGURE
DESIGN BY	DATE:	
APPROVED BY	DRAWING NO:	

Revision 1.0

FILE



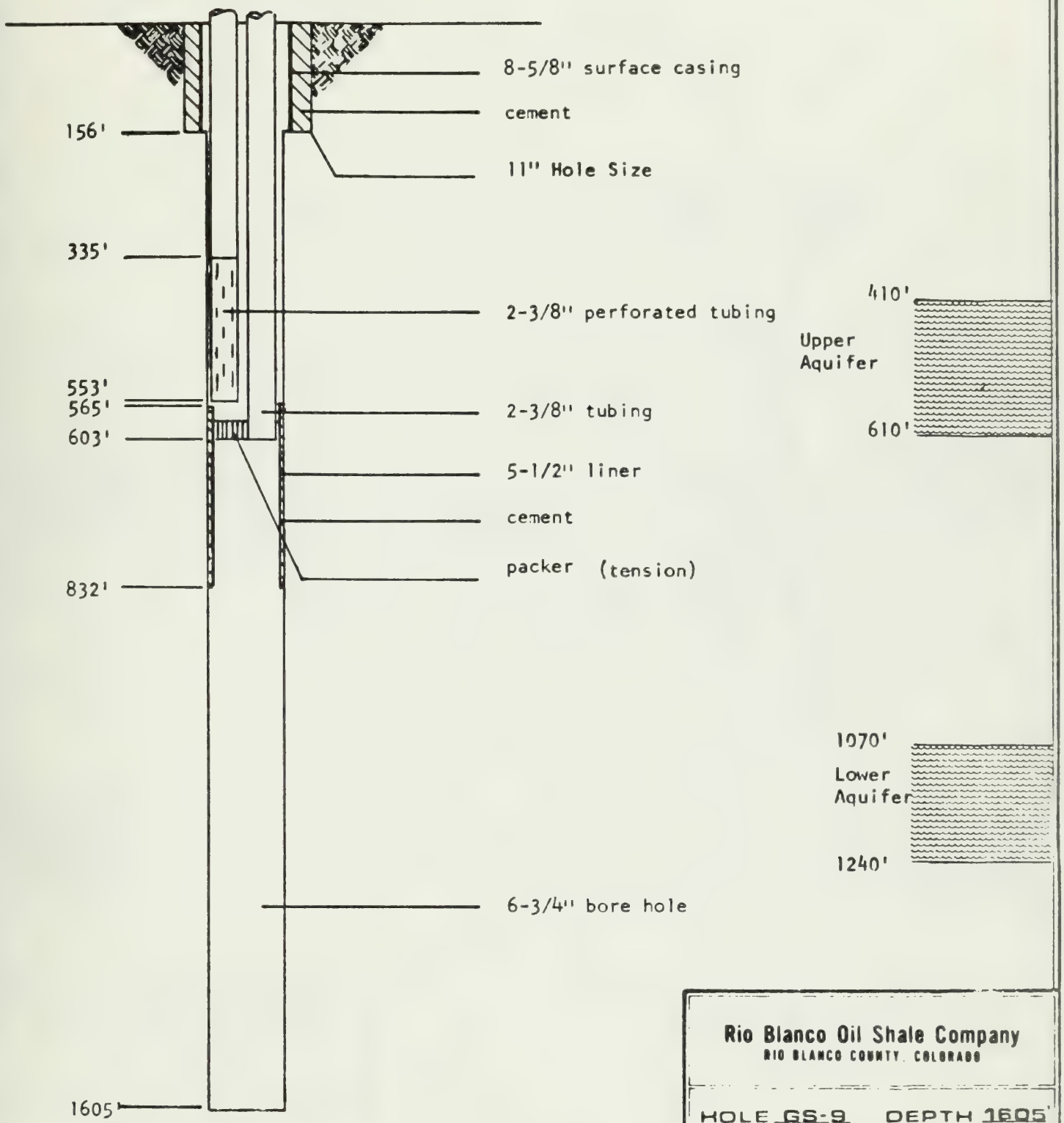
VERITICAL SCALE 1" - 200'

HORIZONTAL SCALE 1" - 1'-0"

Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

HOLE GS-A DEPTH 1616'
March 9, 1979

Revision 1.0



VERITICAL SCALE 1"- 200'

HORIZONTAL SCALE 1'-1-0"

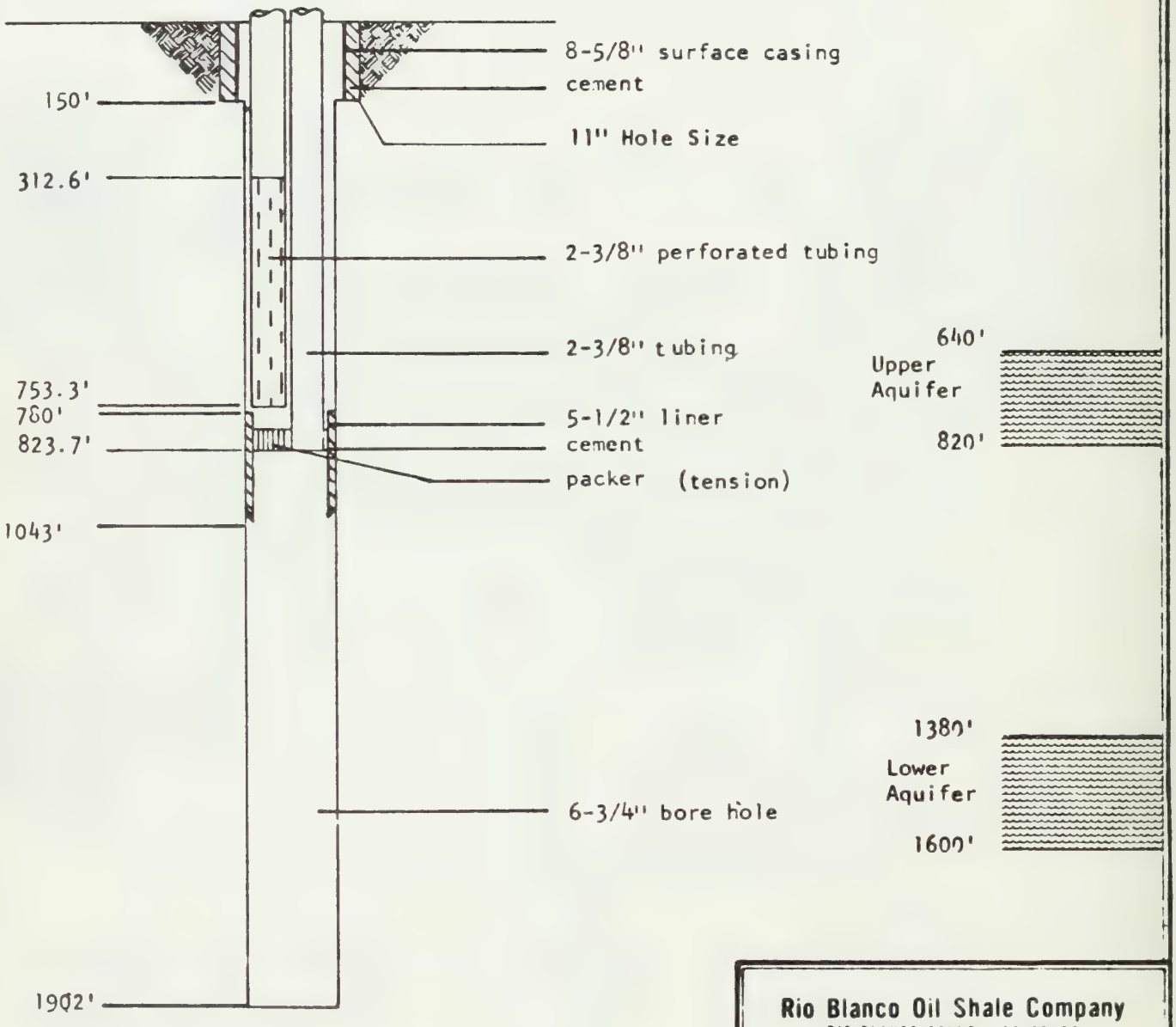
Rio Blanco Oil Shale Company

RIO BLANCO COUNTY, COLORADO

HOLE GS-9 DEPTH 1605'

March 9, 1979

Revision 1.0

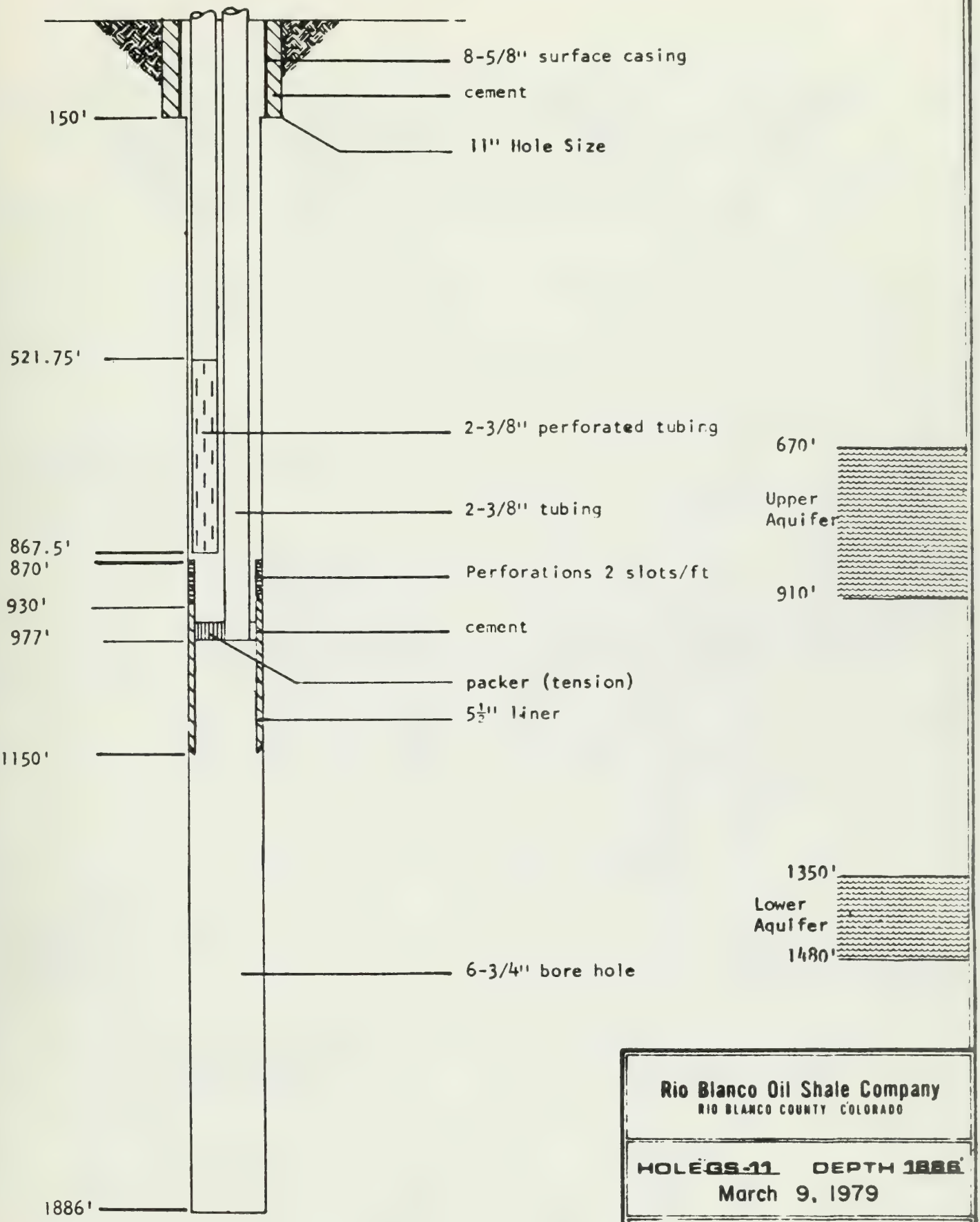


Rio Blanco Oil Shale Company
RIO BLANCO COUNTY COLORADO

HOLE GS-10 DEPTH 1902'
March 9, 1979

Revision 1.0

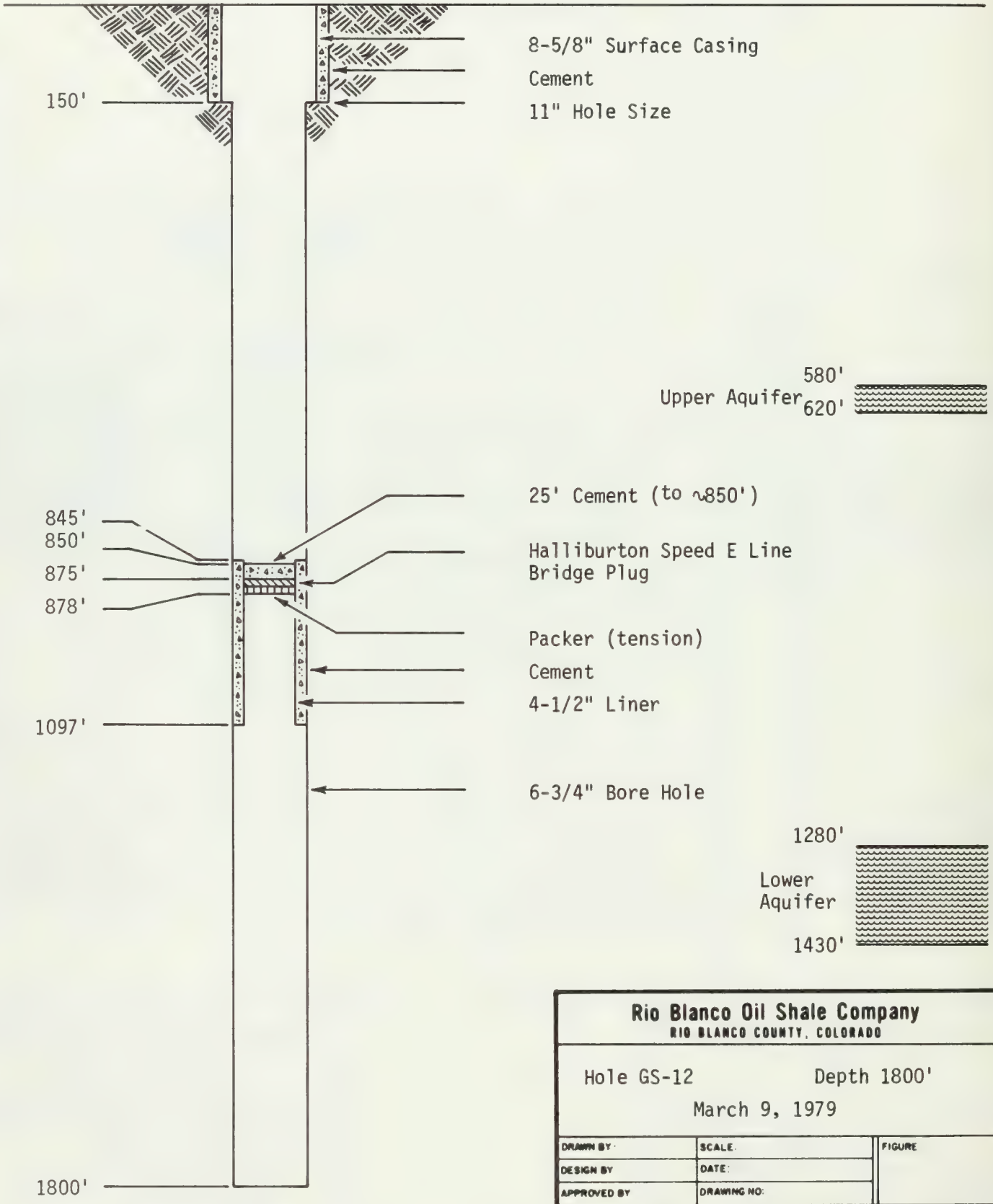
VERTICAL SCALE 1" - 300'
HORIZONTAL SCALE 1" - 1 0'



Rio Blanco Oil Shale Company
RIO BLANCO COUNTY COLORADO

HOLE GS-11 DEPTH 1886'
March 9, 1979

Revision 1.0



HORIZONTAL SCALE: 1" = 1'-0"
VERTICAL SCALE: 1" = 200'

Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

Hole GS-12 Depth 1800'

March 9, 1979

DRAWN BY:	SCALE:	FIGURE
DESIGN BY	DATE:	
APPROVED BY	DRAWING NO:	

Revision 1.0

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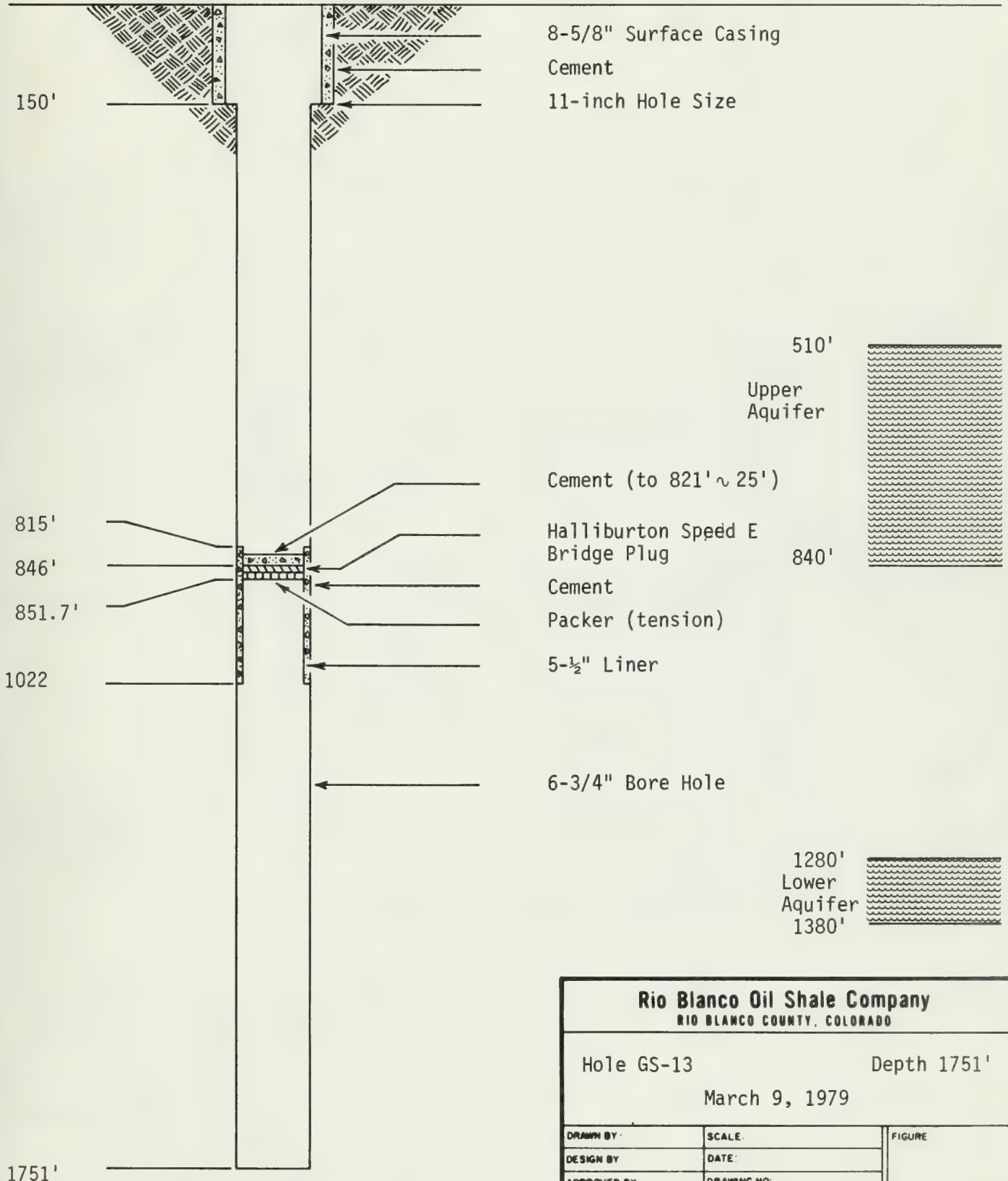

Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

Hole GS-13 Depth 1751'

March 9, 1979

DRAWN BY:	SCALE:	FIGURE
DESIGN BY	DATE:	
APPROVED BY	DRAWING NO:	

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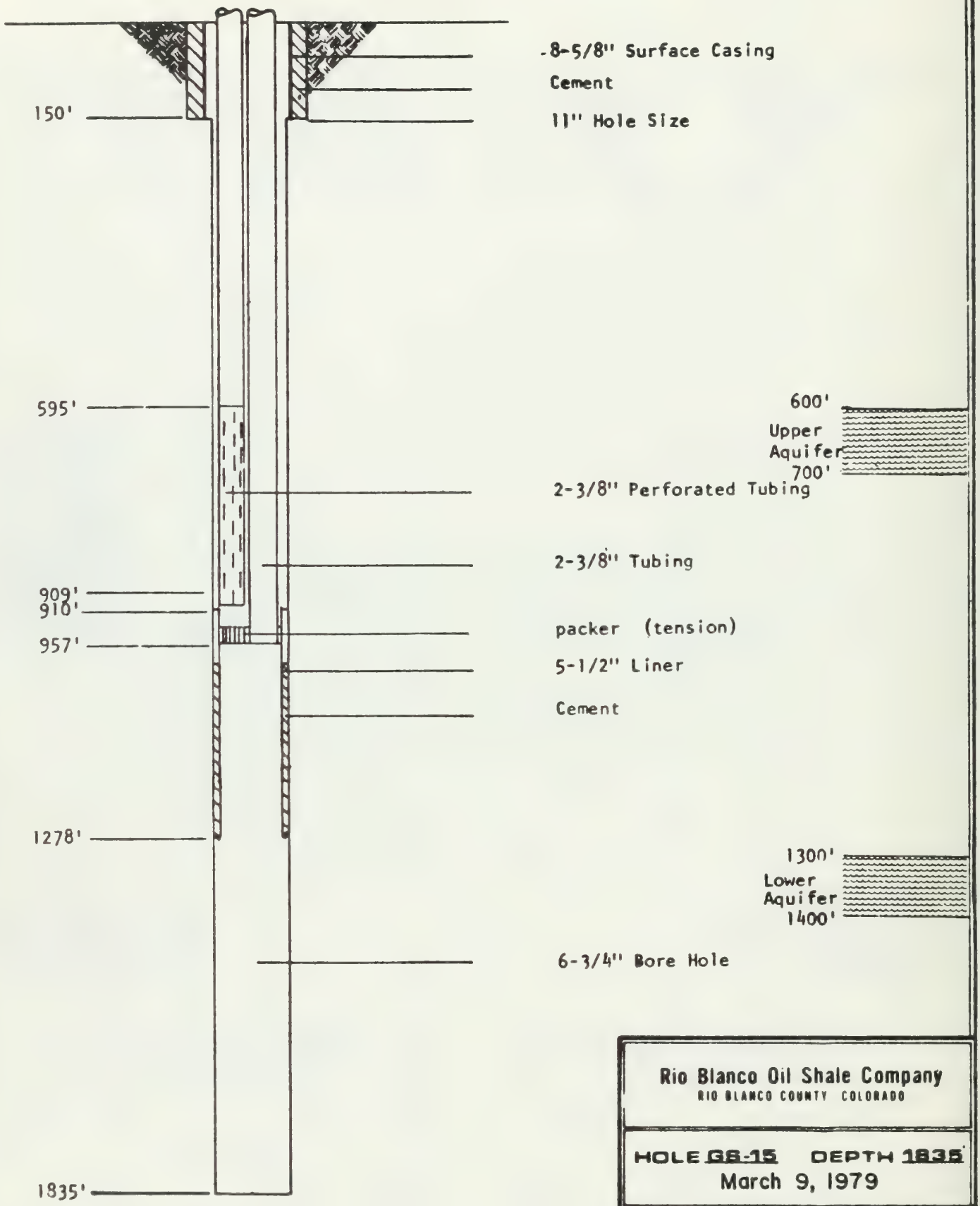


VERITICAL SCALE 1"-200'

HORIZONTAL SCALE 1"-1-0"

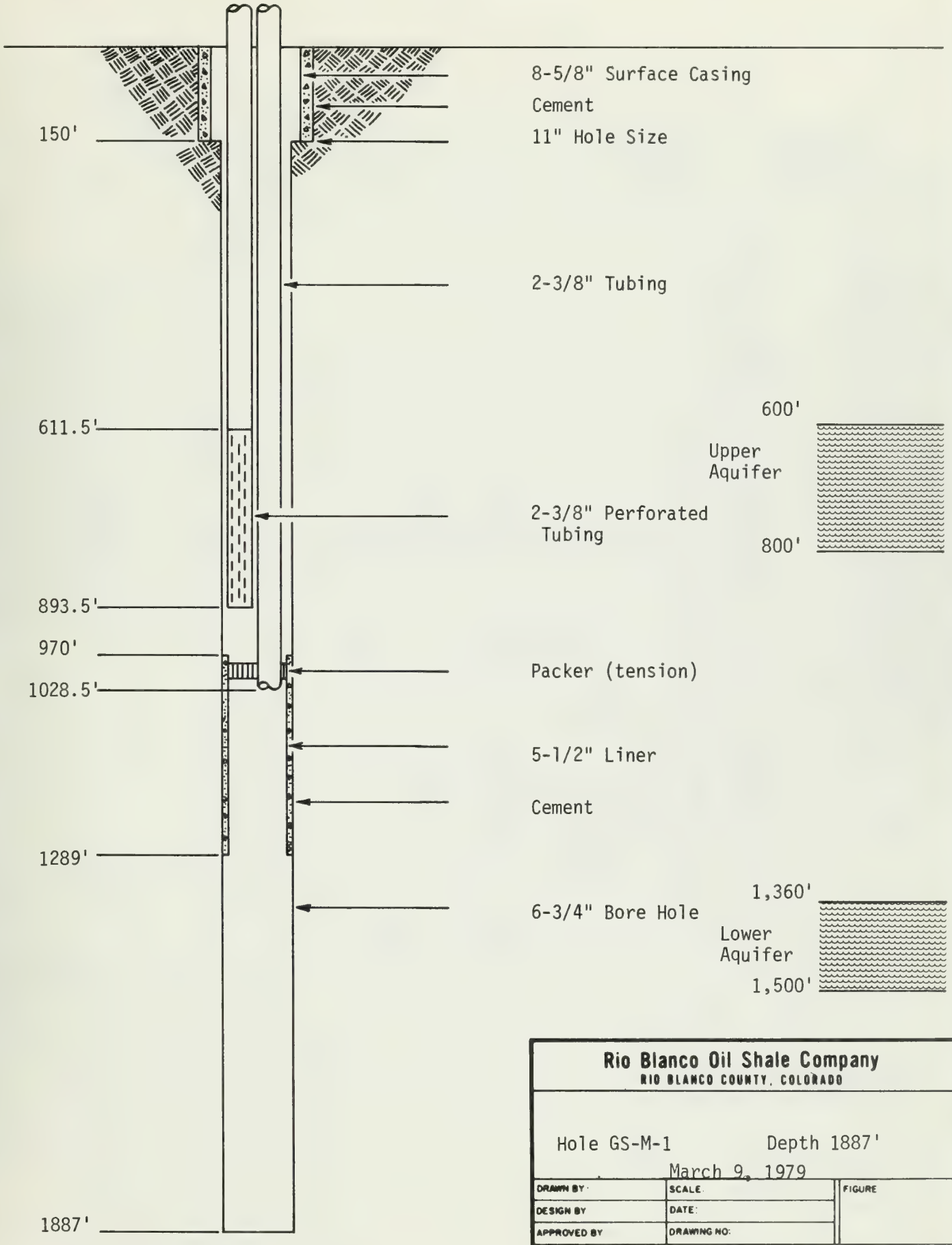
Rio Blanco Oil Shale Company

RIO BLANCO COUNTY COLORADO

HOLE GS-15 DEPTH 1835'

March 9, 1979

Revision 1.0



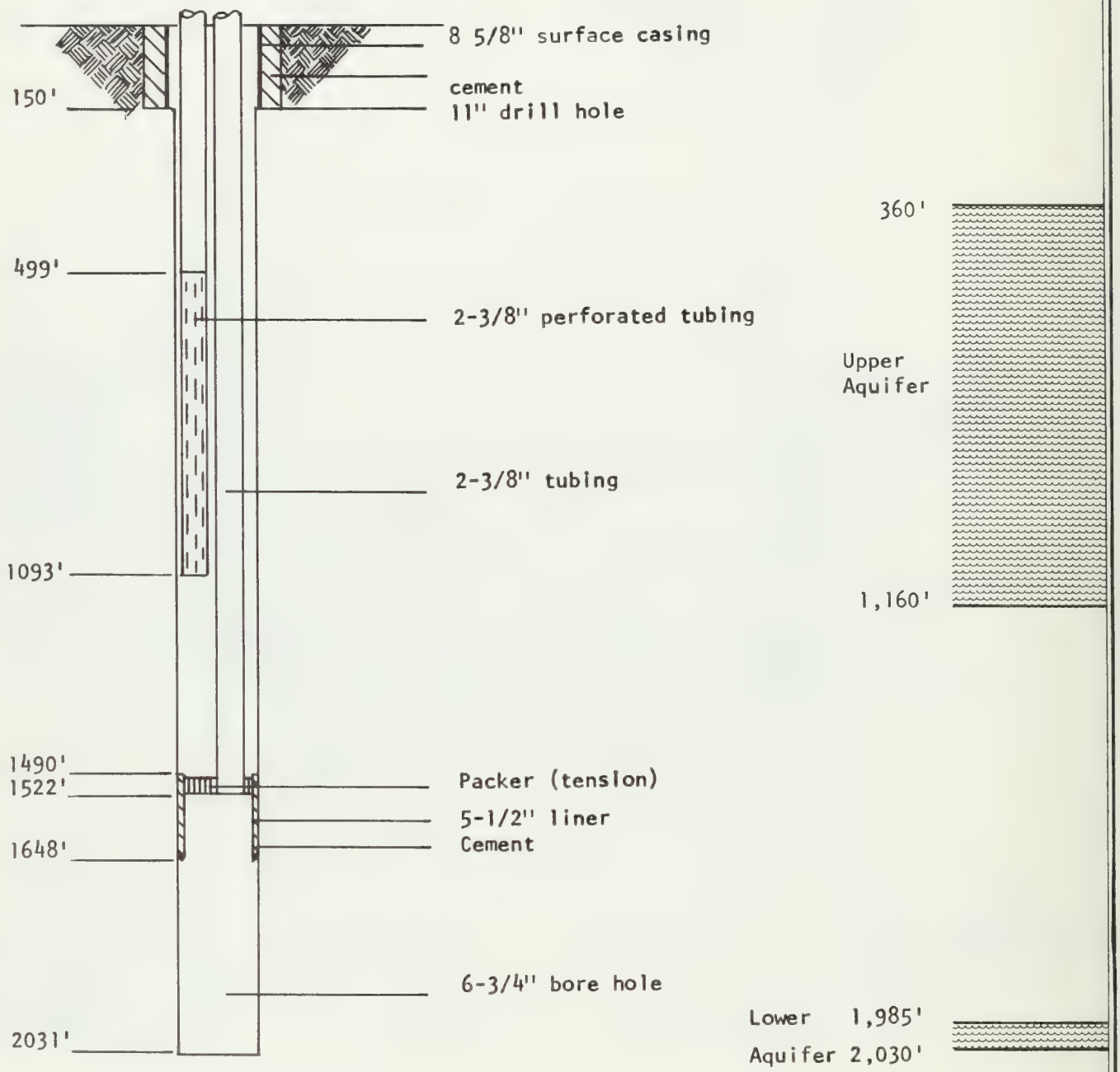
Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

Hole GS-M-1 Depth 1887'

March 9, 1979

DRAWN BY:	SCALE:	FIGURE
DESIGN BY	DATE:	
APPROVED BY	DRAWING NO:	

Revision 1.0 FILE:



VERITICAL SCALE 1"=300'

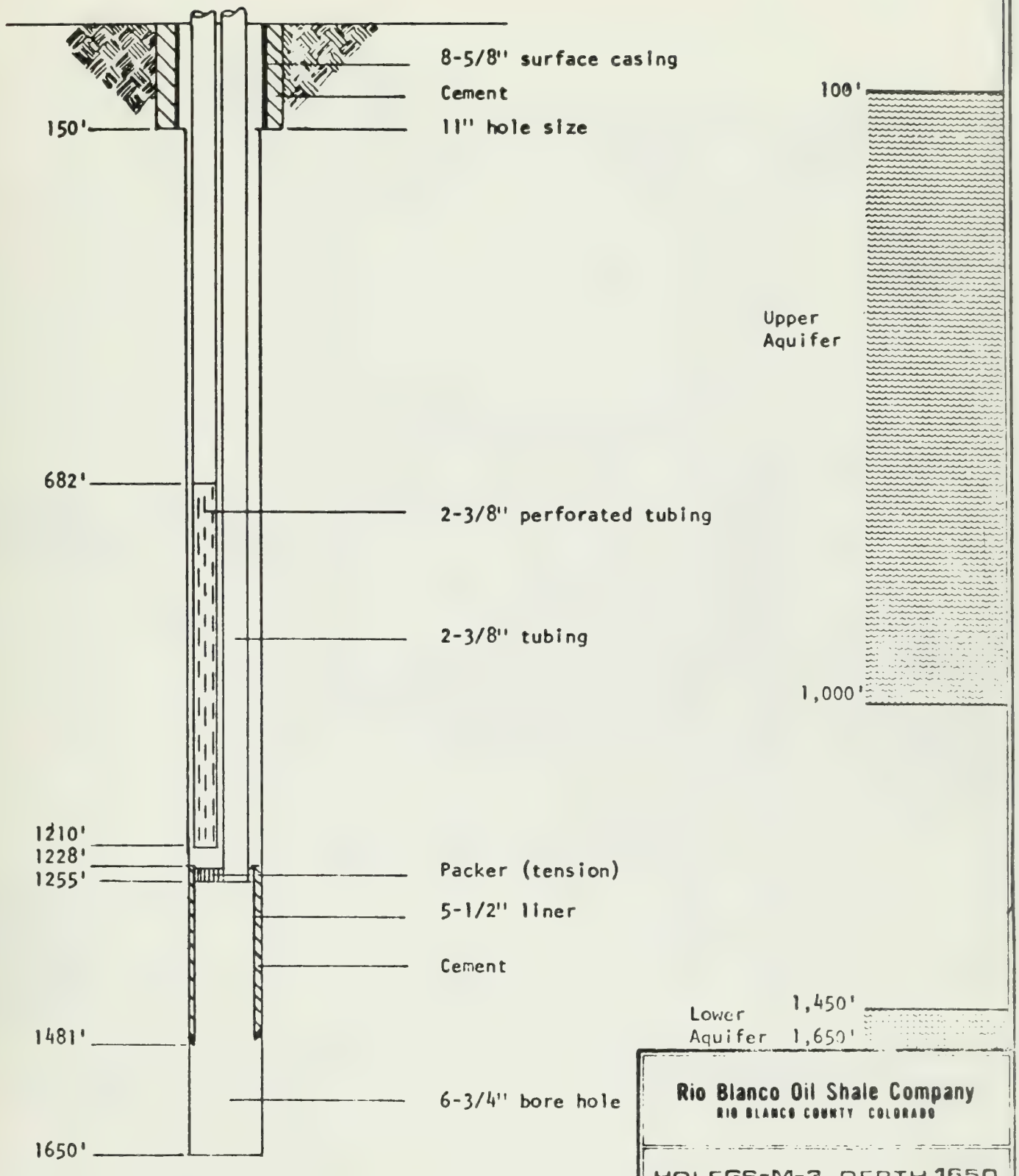
HORIZONTAL SCALE 1"=1.0"

RIO BLANCO OIL SHALE PROJECT

HOLE GS-M-2 DEPTH 2031

March 9, 1979

WRIGHT WATER ENGINEERS INC
ENGINEERING CONSULTANTS
2490 ALCOTT STREET
DENVER COLORADO 80211



VERITICAL SCALE 1"- 200'

HORIZONTAL SCALE 1"-1-0"

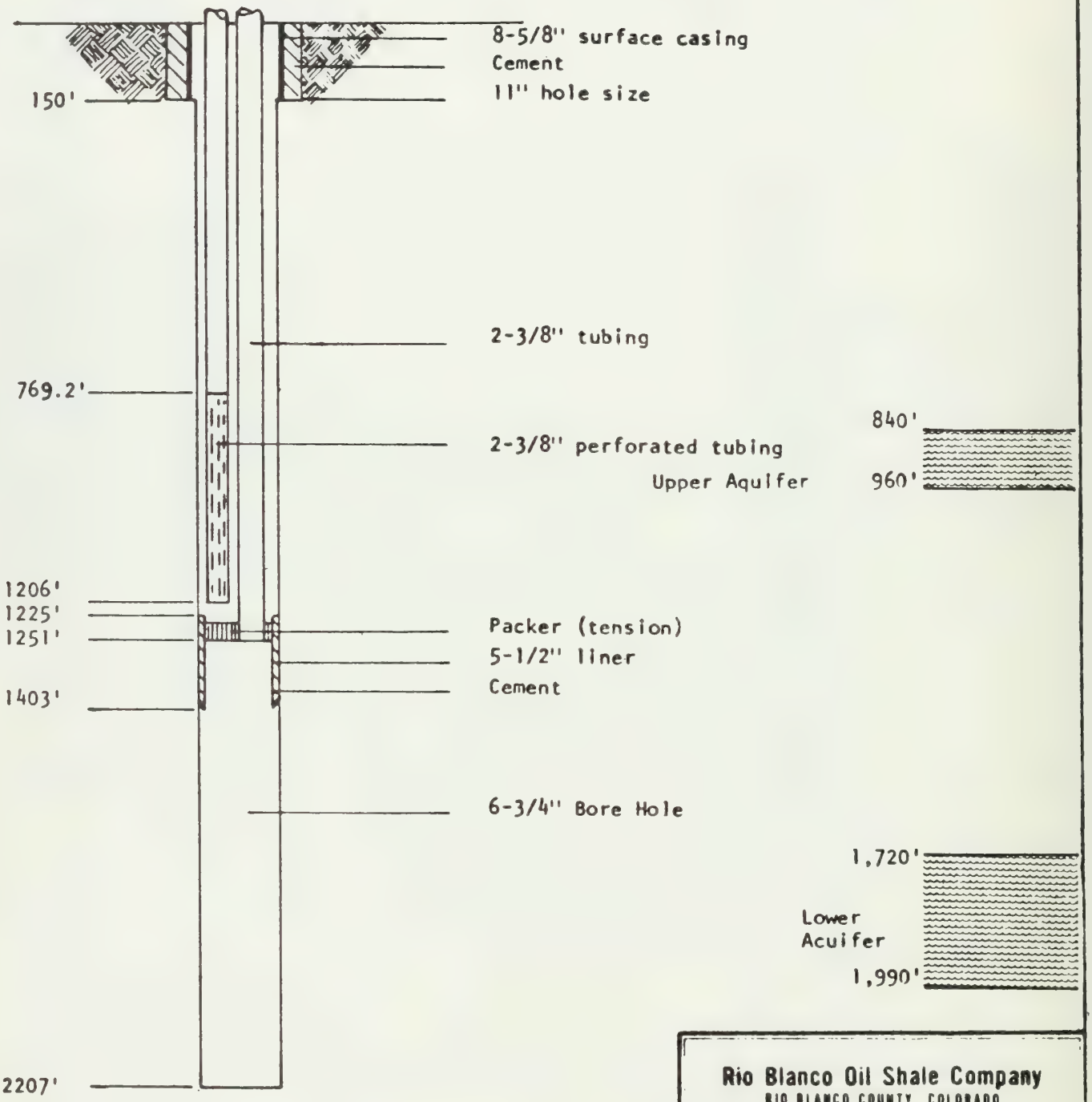
Rio Blanco Oil Shale Company

RIO BLANCO COUNTY COLORADO

HOLE GS-M-3 DEPTH 1650

March 9, 1979

Revision 1.0

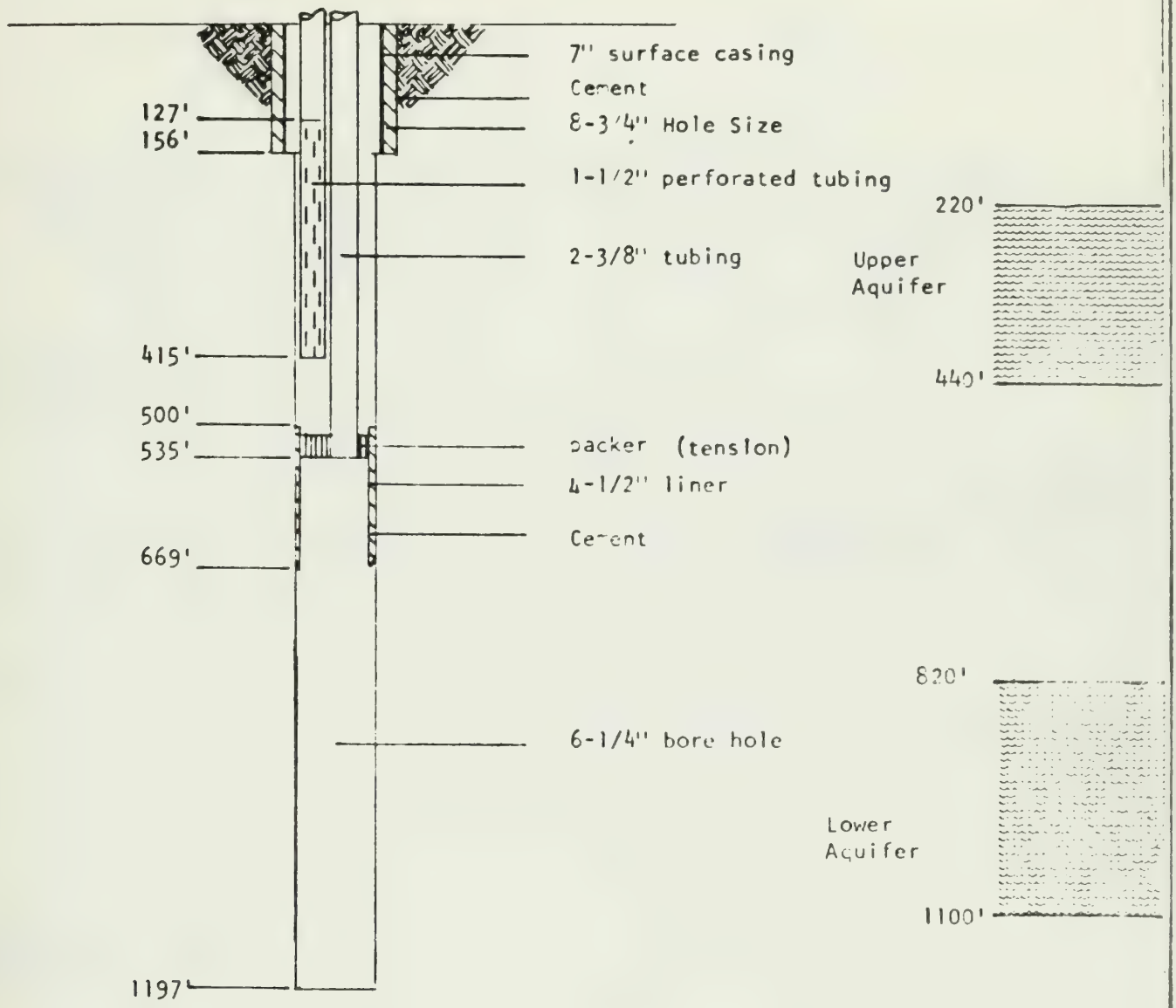


Rio Blanco Oil Shale Company
RIO BLANCO COUNTY COLORADO

HOLE GS-M-4 DEPTH 2207
March 9, 1979

Revision 1.0

VERTICAL SCALE 1"=300'
HORIZONTAL SCALE 1"=1-0"

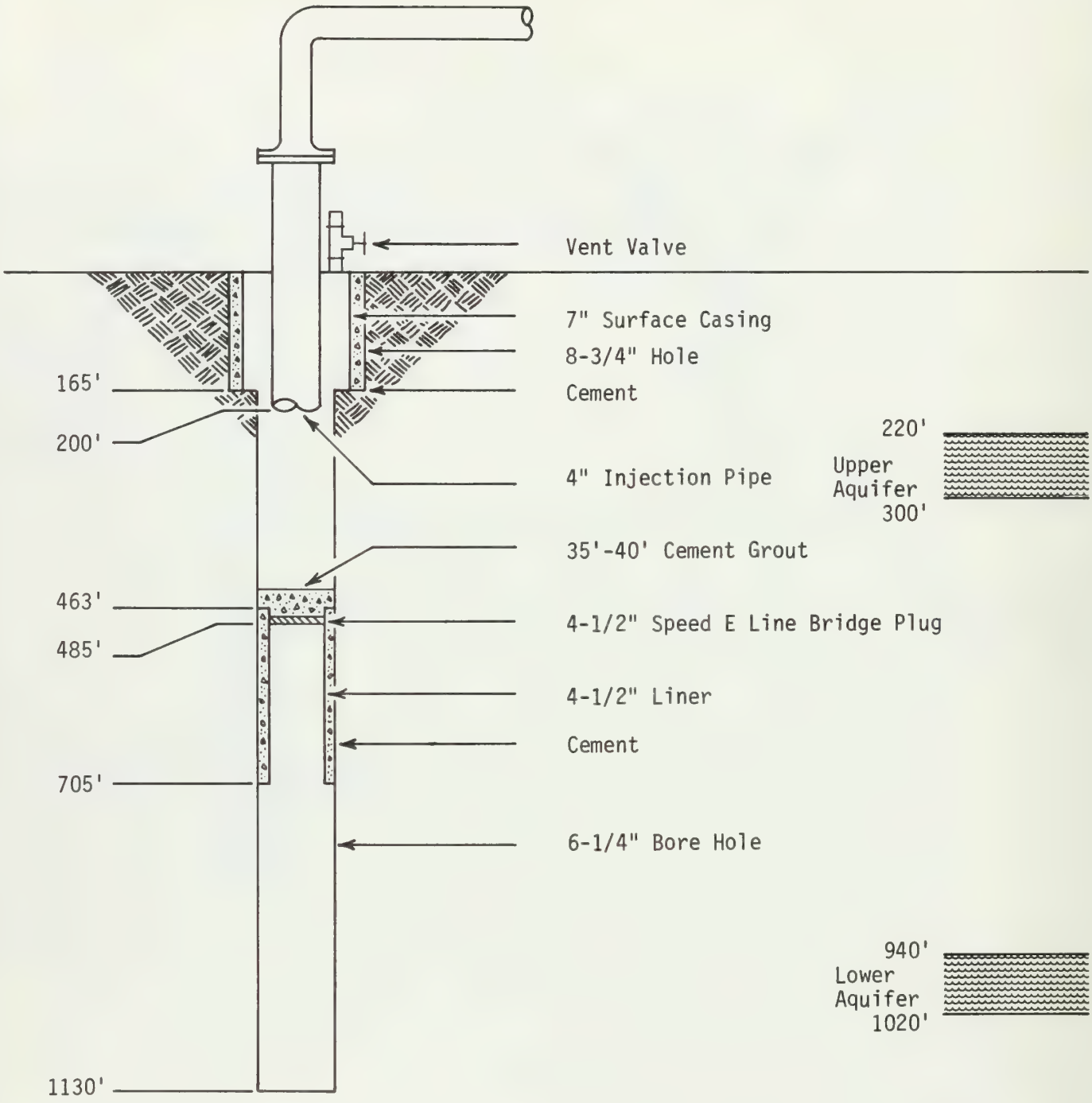


Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

HOLE IO-1 DEPTH 1197
March 9, 1979

Revision 1.0

VERITICAL SCALE 1" - 200'
HORIZONTAL SCALE 1"-1'0"



HORIZONTAL SCALE: 1"=1'-0"
VERTICAL SCALE: 1"=200'

Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

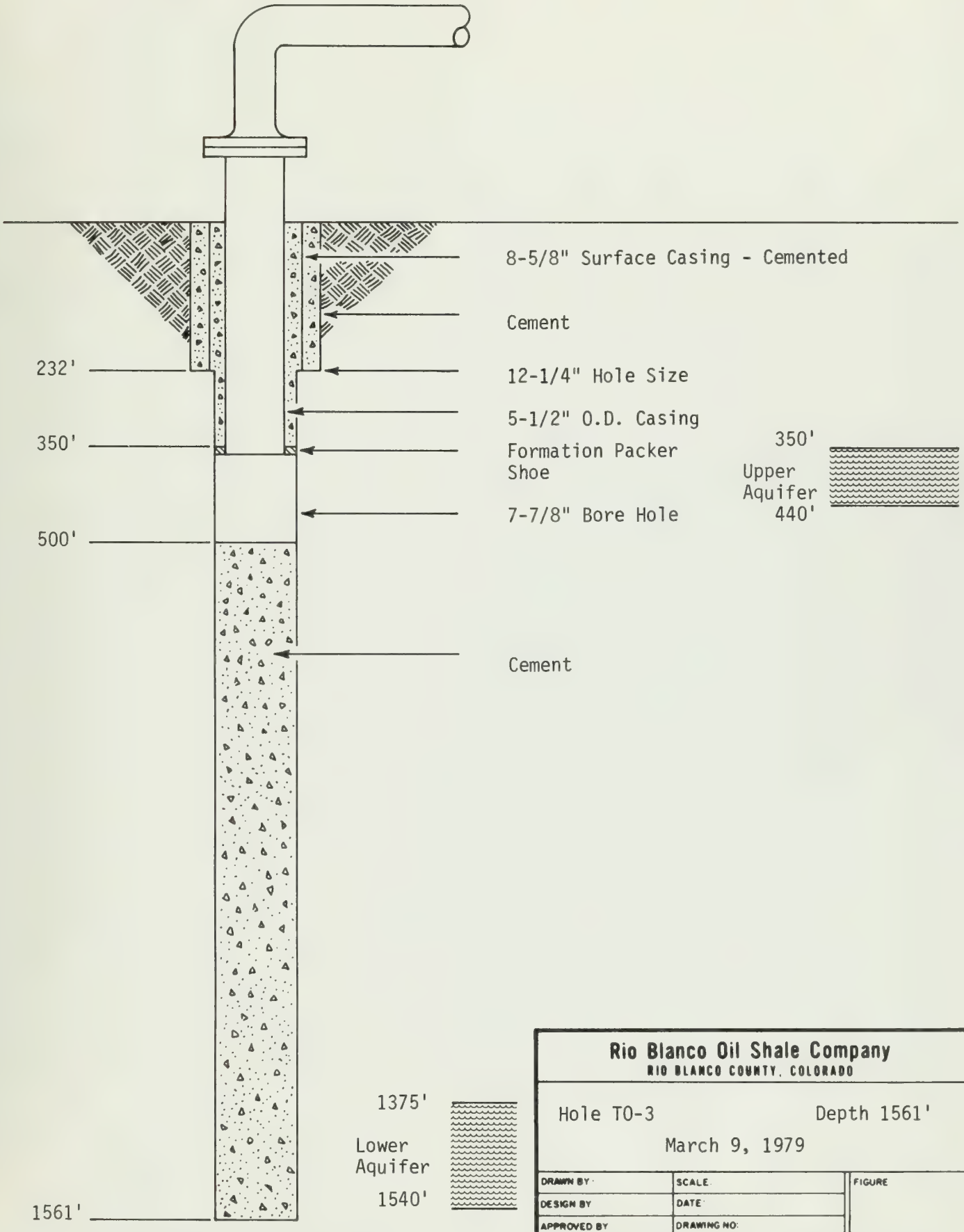
Hole TO-2 Depth 1130'

March 9, 1979

DRAWN BY:	SCALE	FIGURE
DESIGN BY	DATE:	
APPROVED BY	DRAWING NO:	

Revision 1.0

FILE:



HORIZONTAL SCALE: 1" = 1'-0"
VERTICAL SCALE: 1" = 200'

Rio Blanco Oil Shale Company
RIO BLANCO COUNTY, COLORADO

Hole TO-3 Depth 1561'

March 9, 1979

DRAWN BY	SCALE	FIGURE
DESIGN BY	DATE	
APPROVED BY	DRAWING NO.	

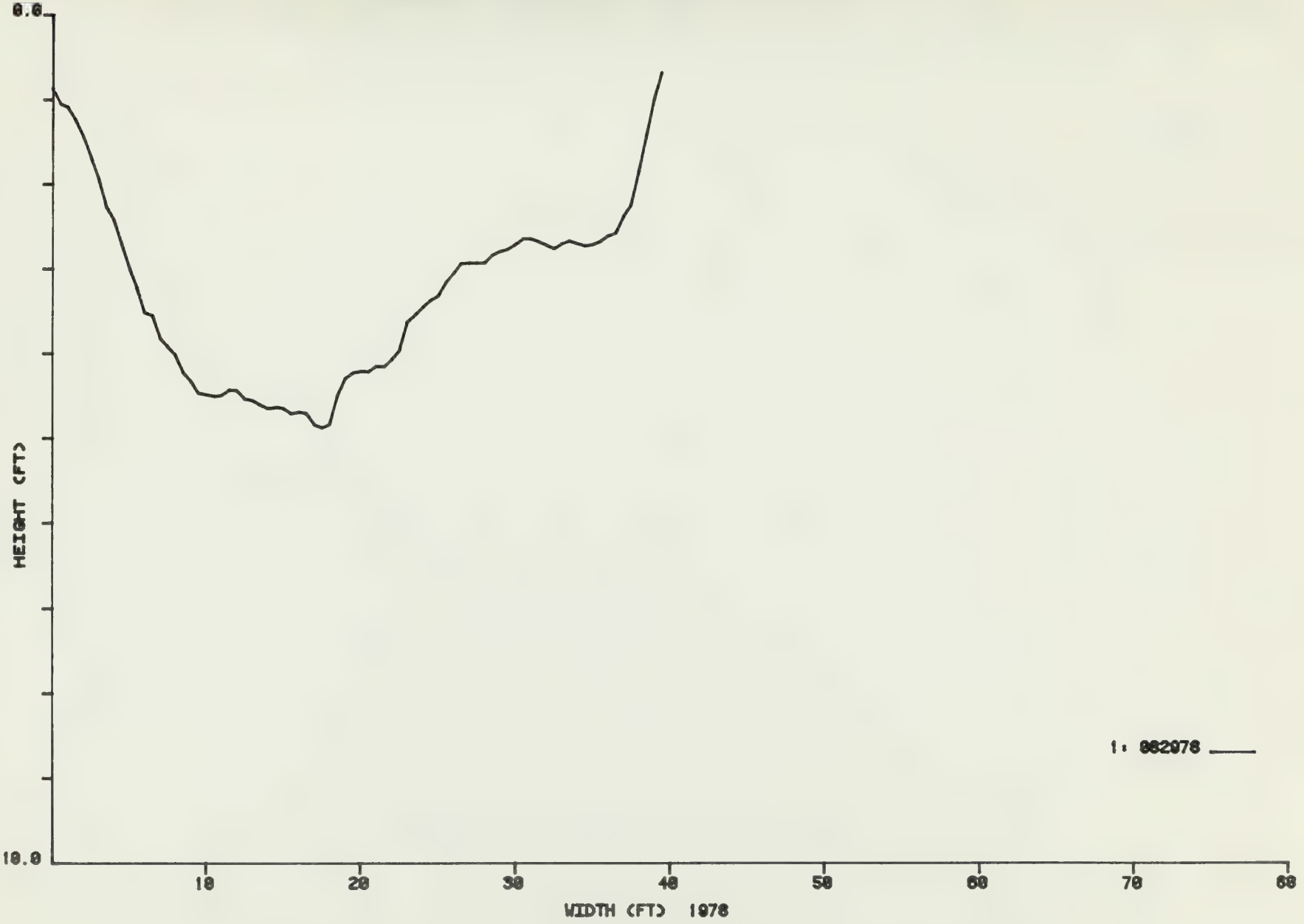
Revision 1.0

FILE

APPENDIX 5-3
RBOSC MDP PUMP TEST MONITORING DATA

APPENDIX 5-3.1

EROSION AND SEDIMENTATION DATA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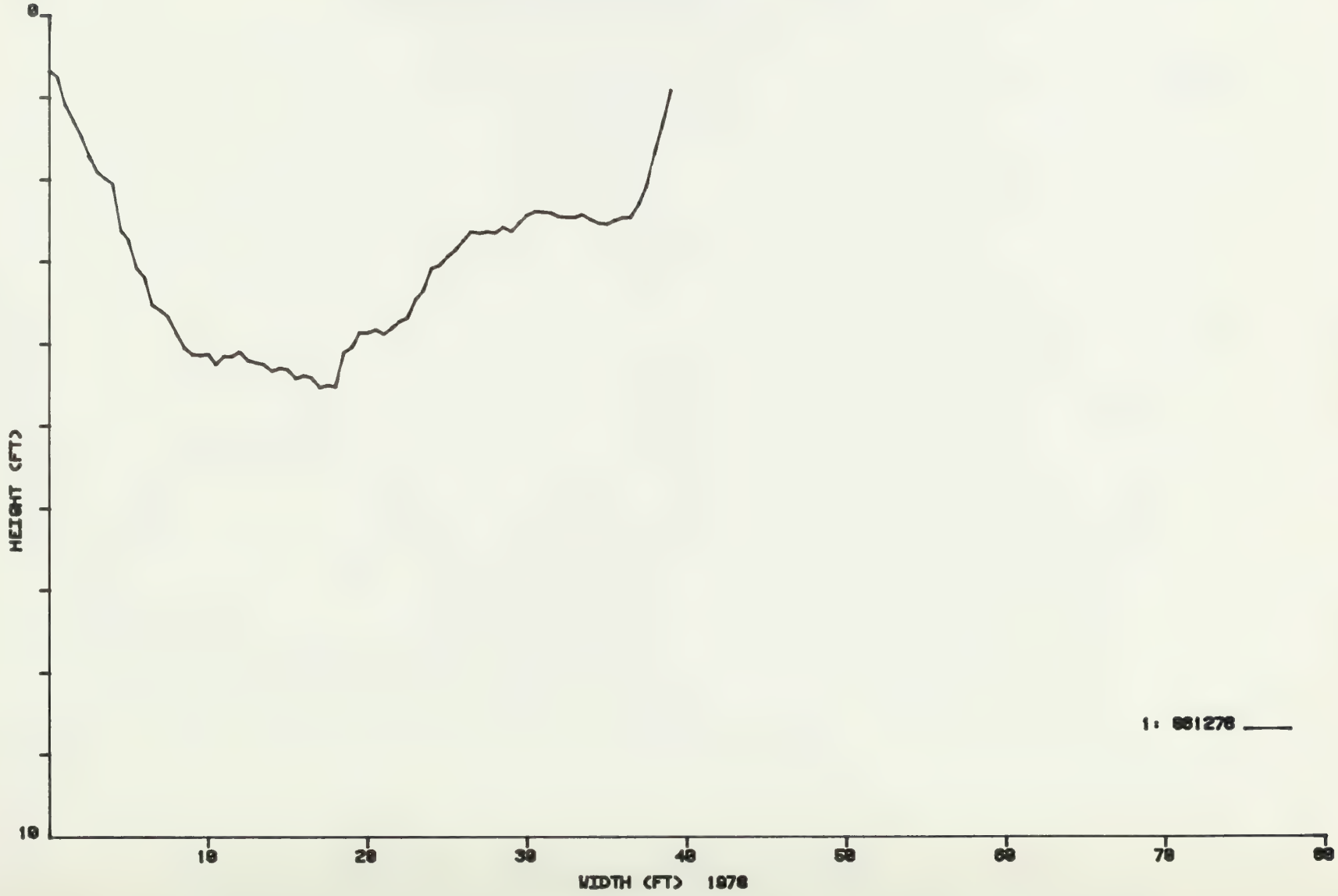
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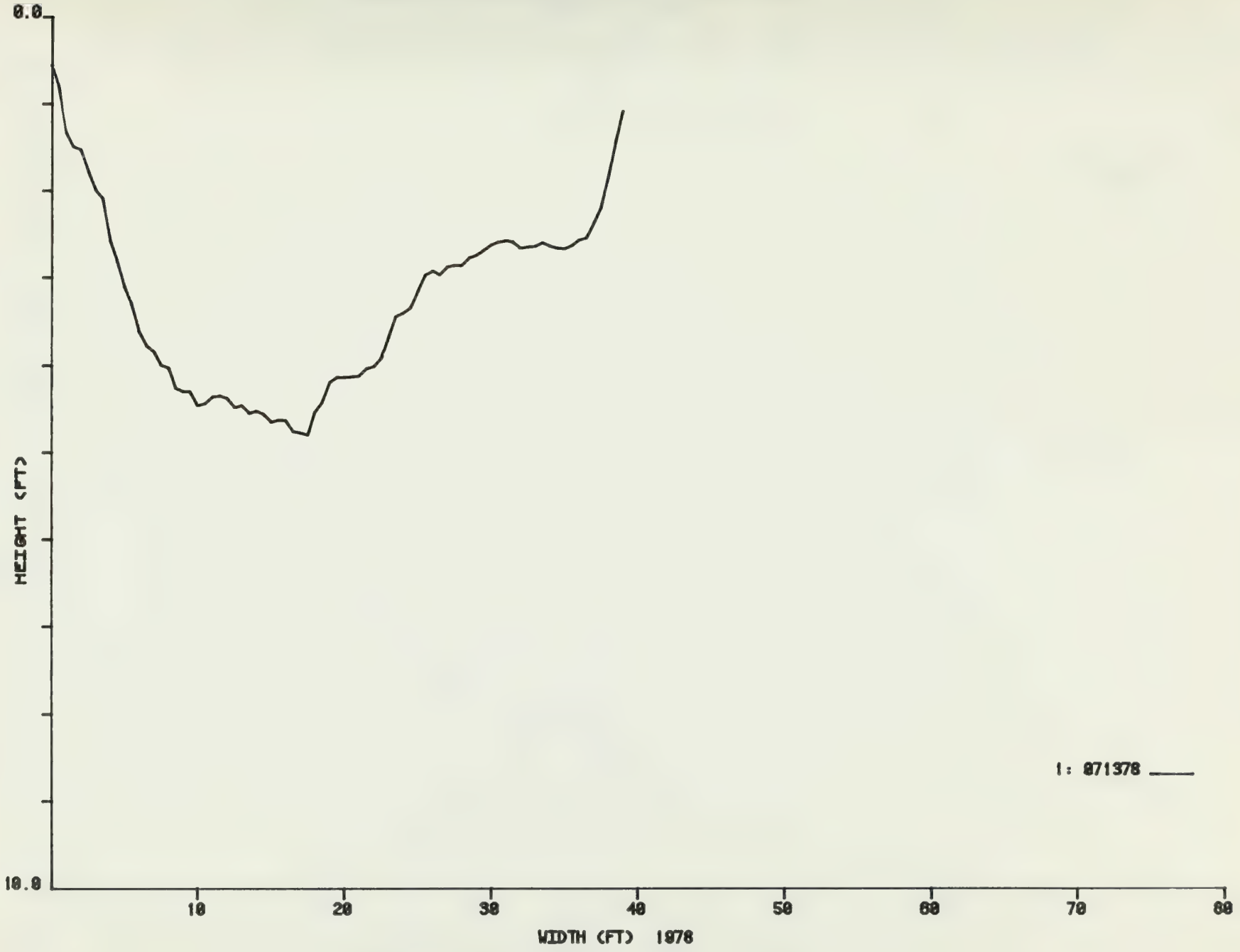
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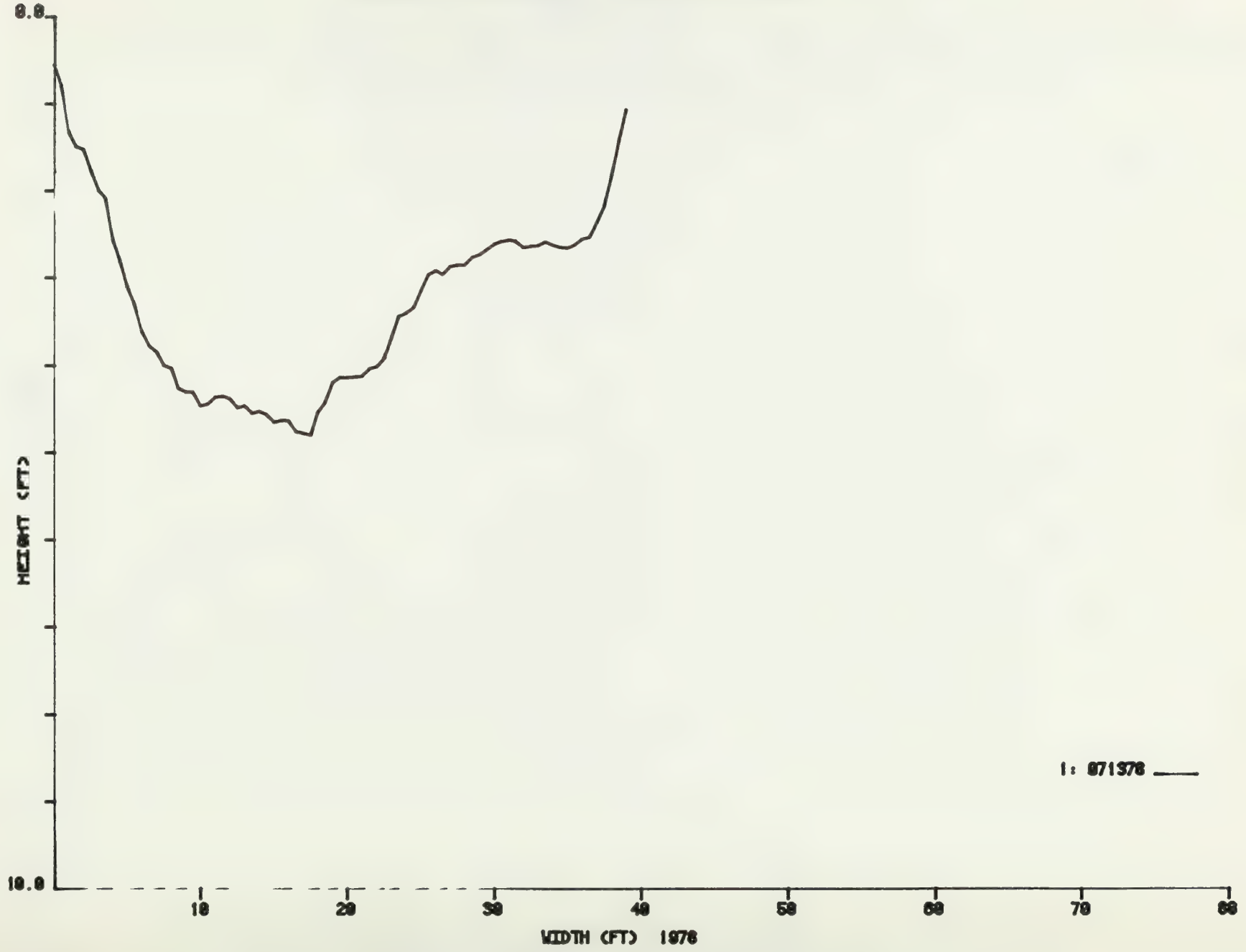
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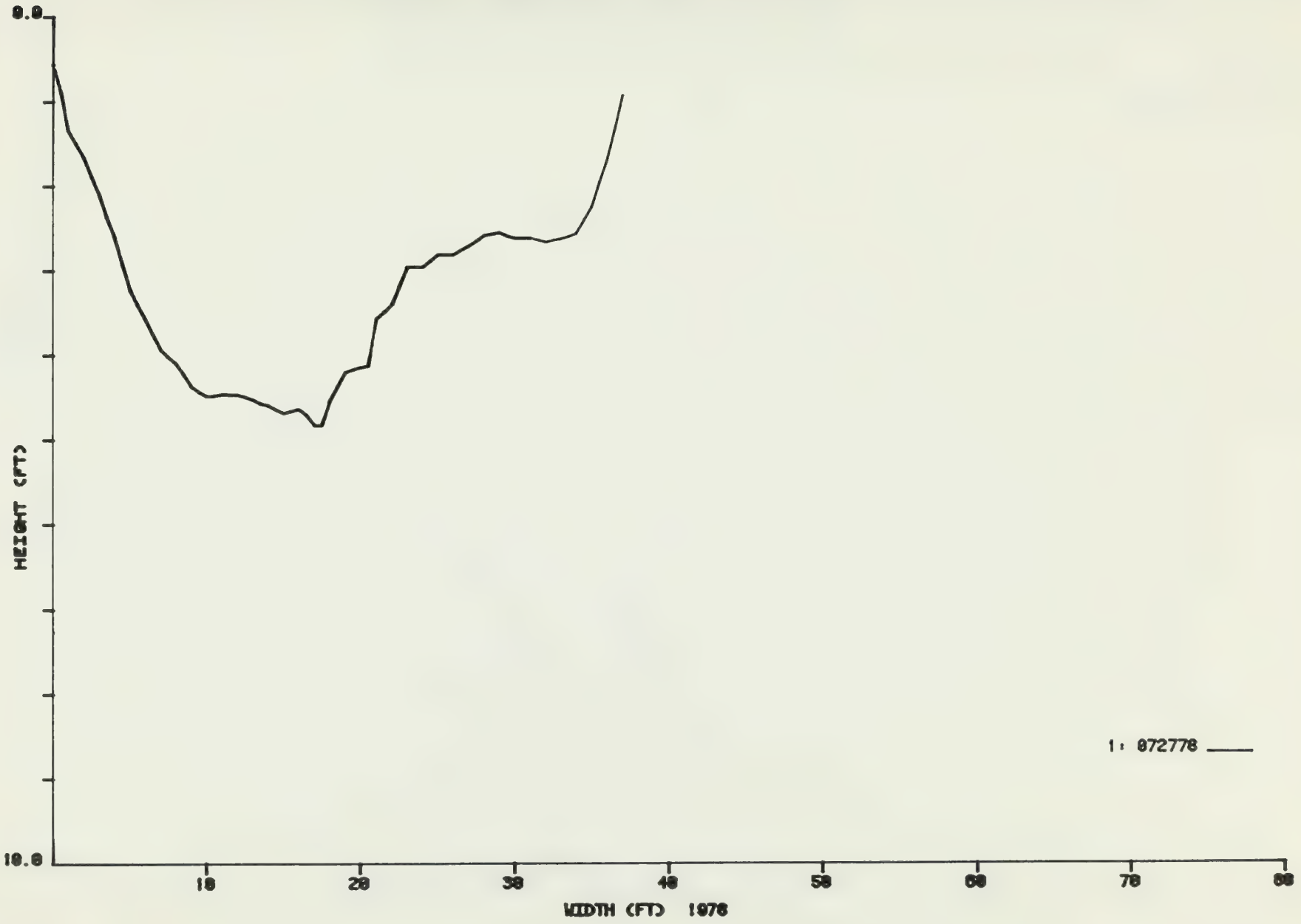
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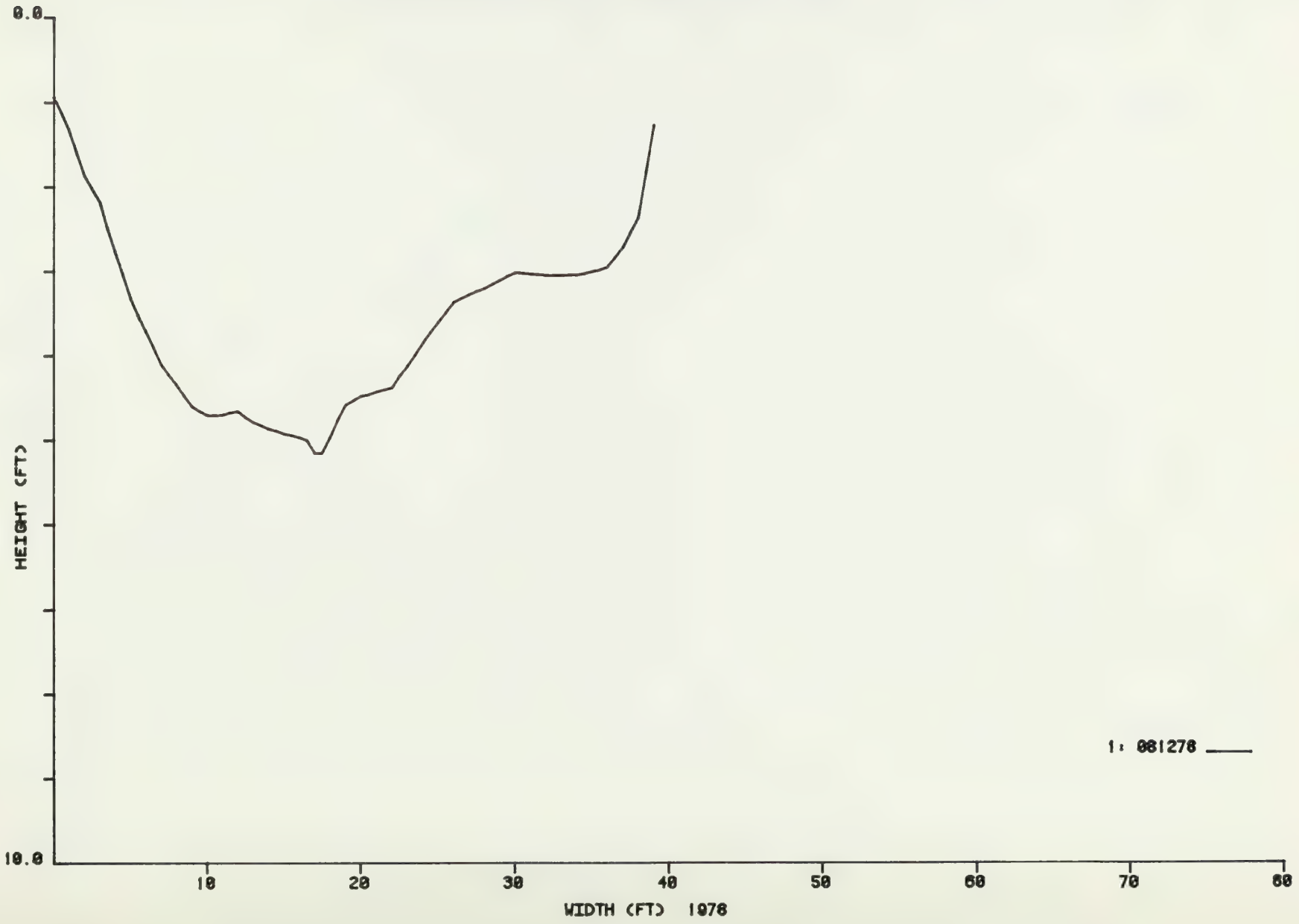
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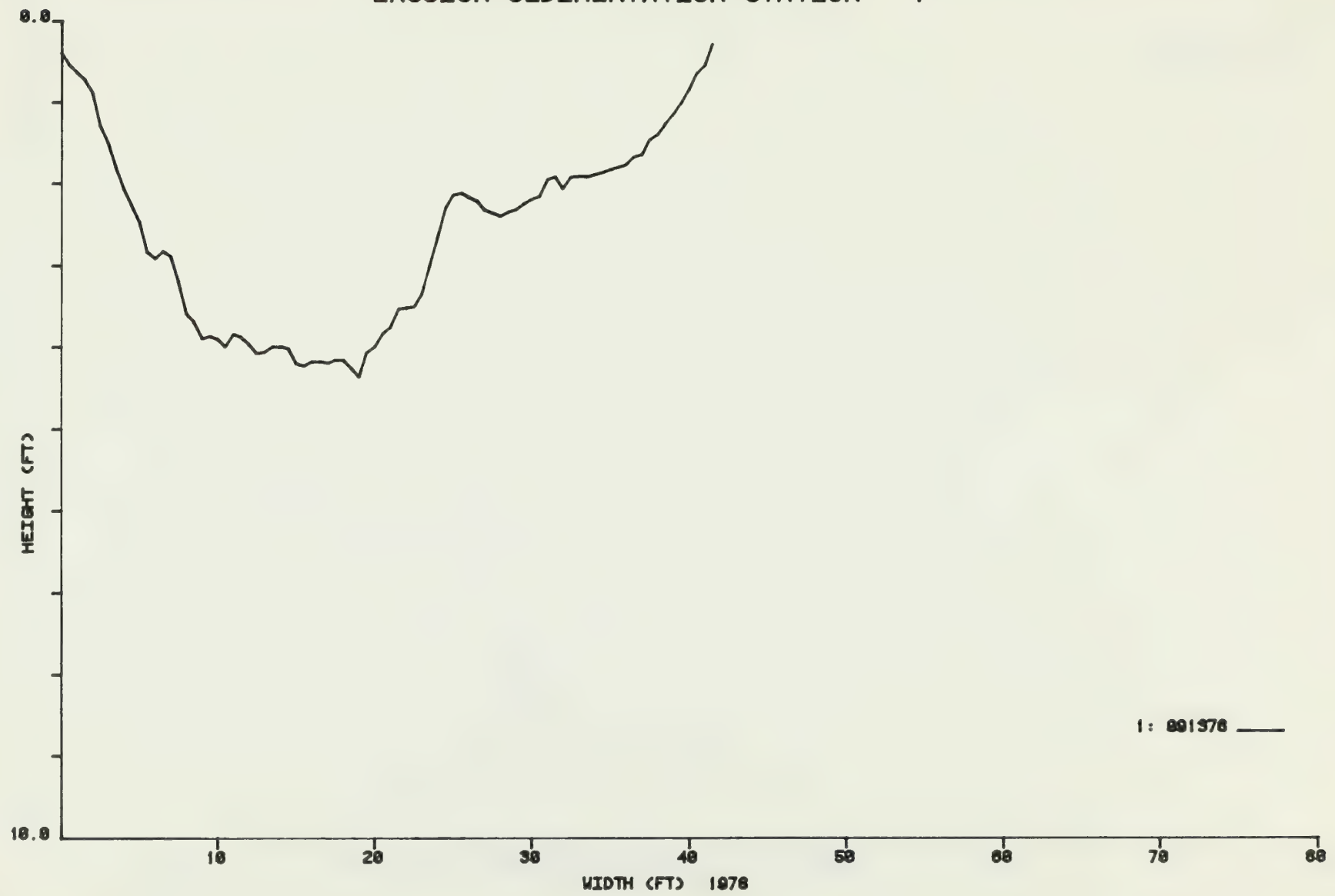
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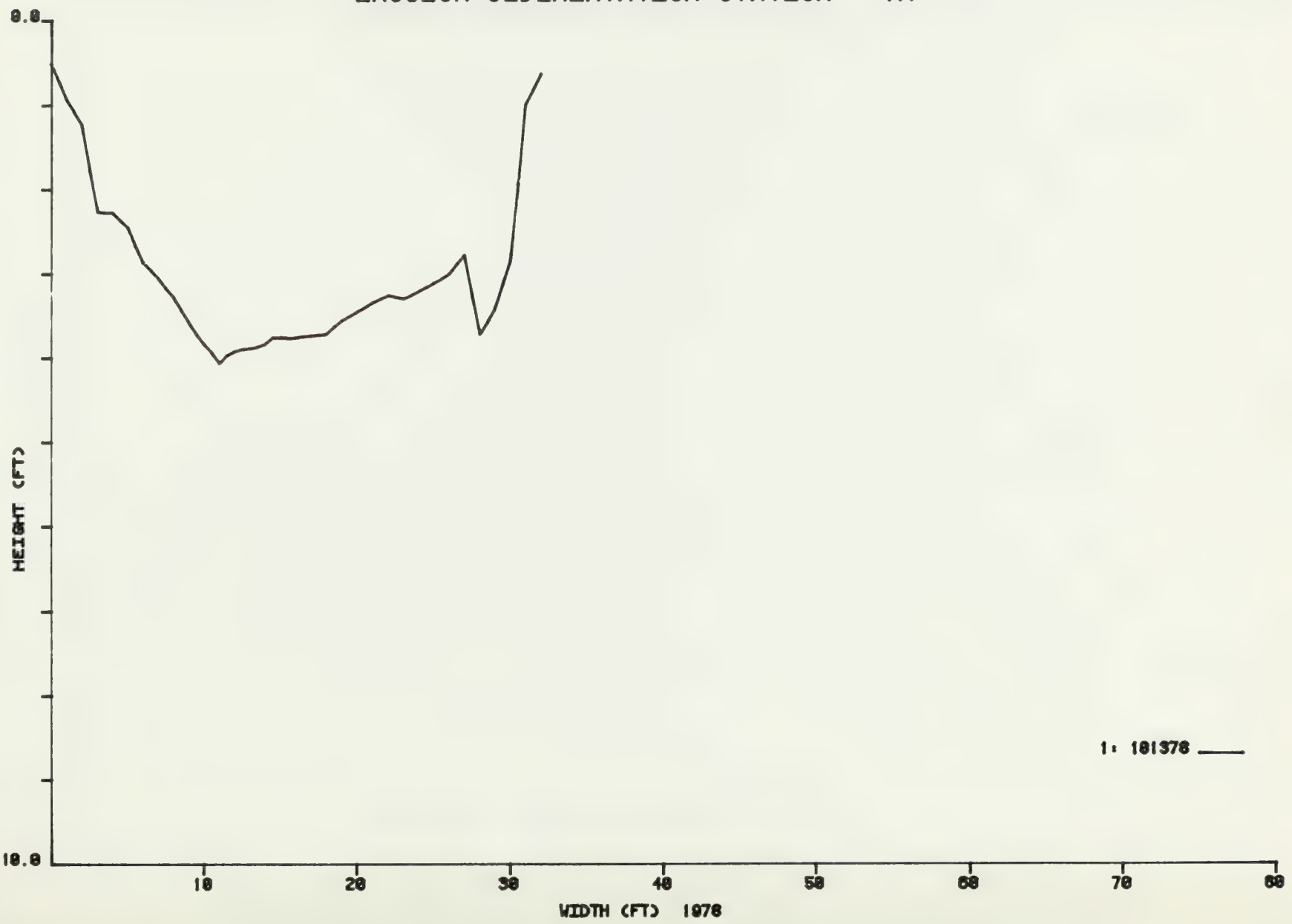
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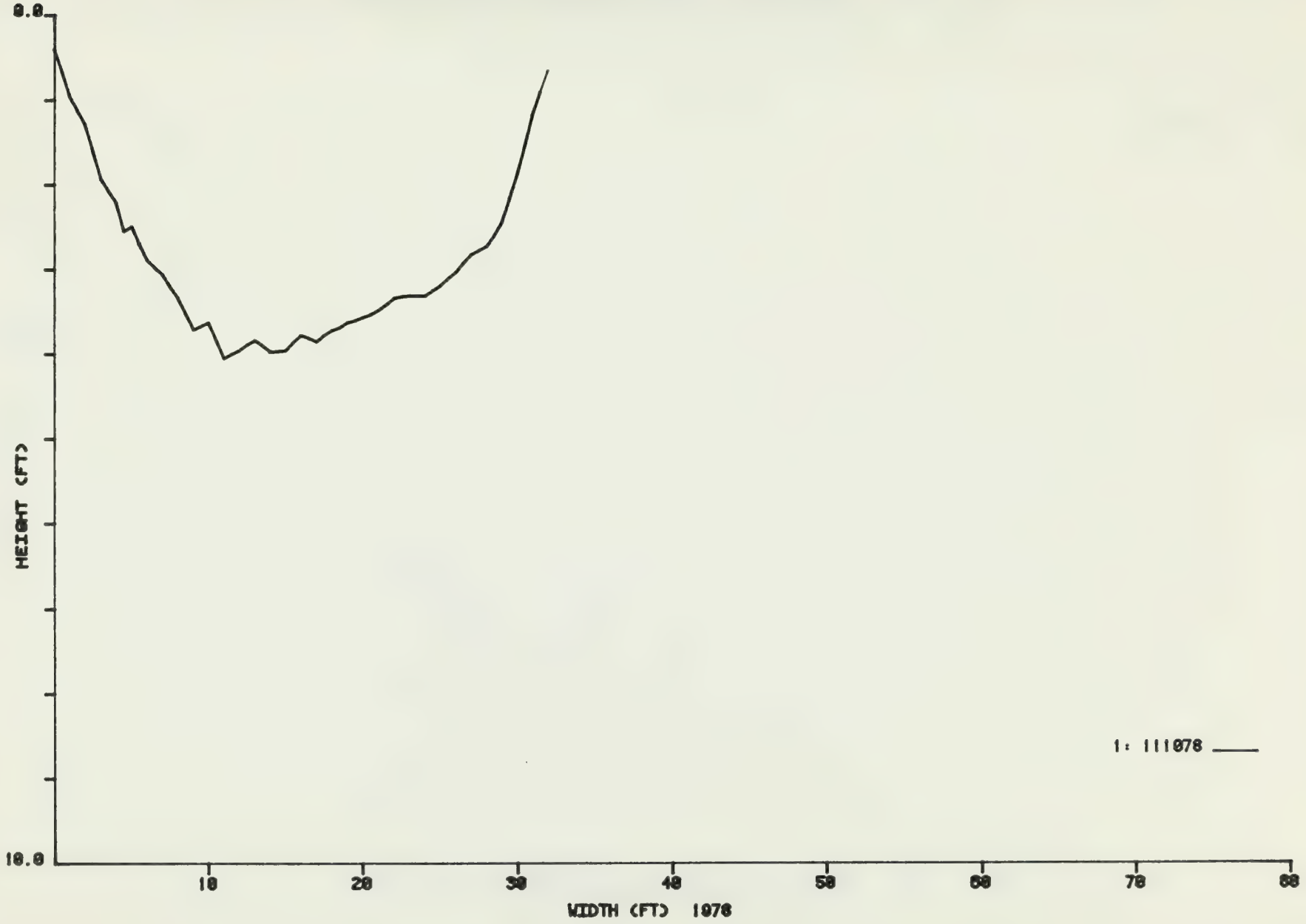
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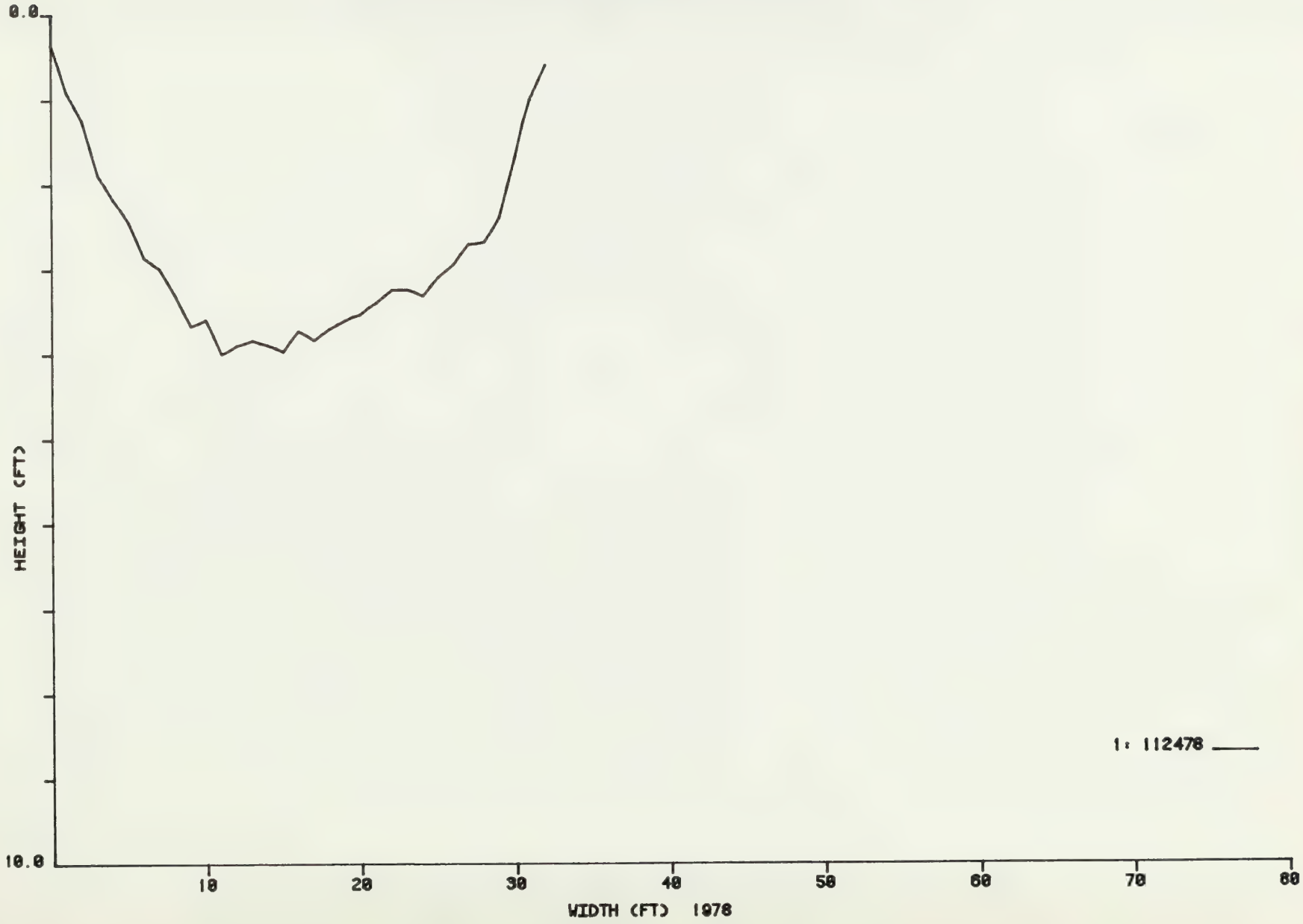
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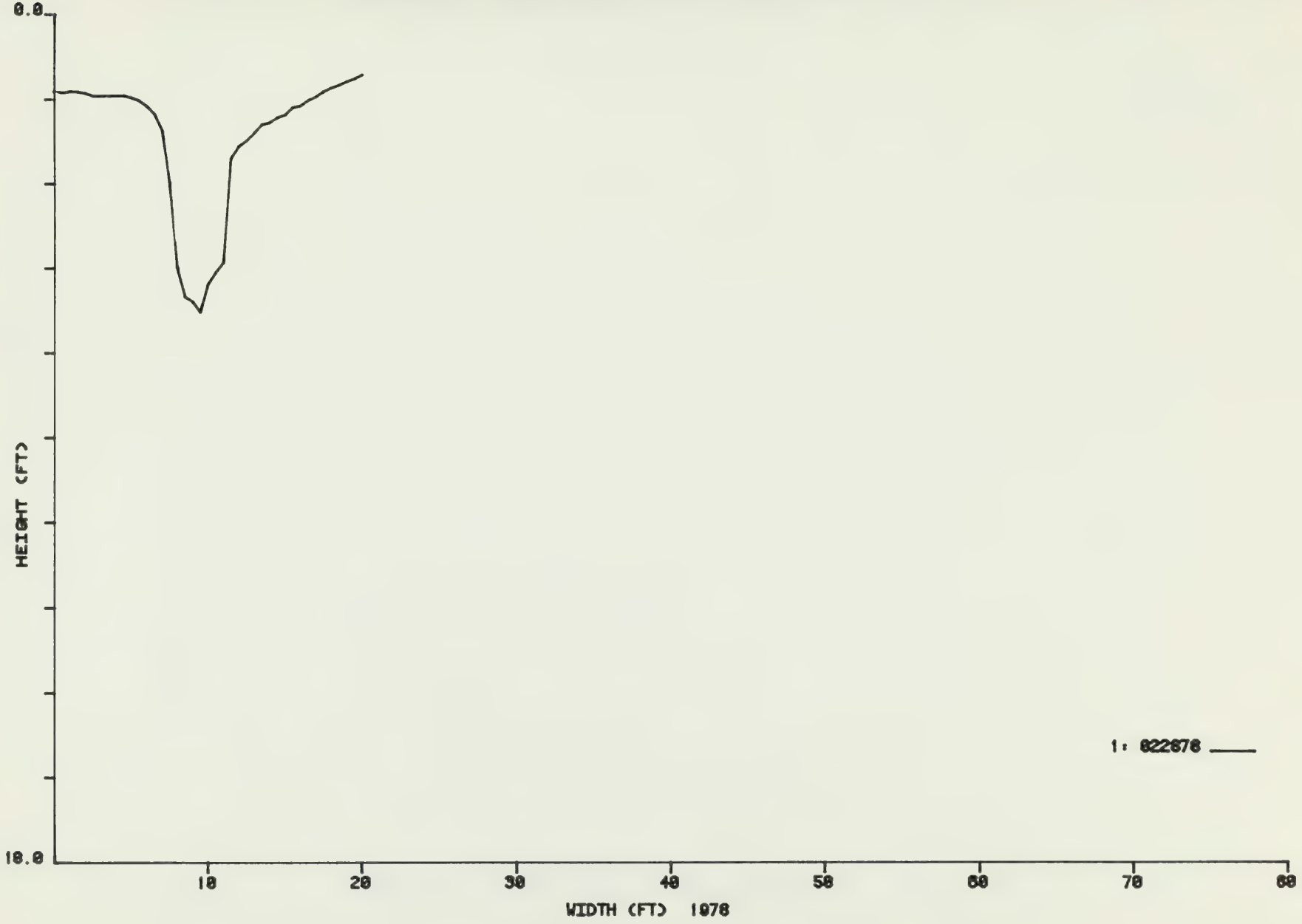
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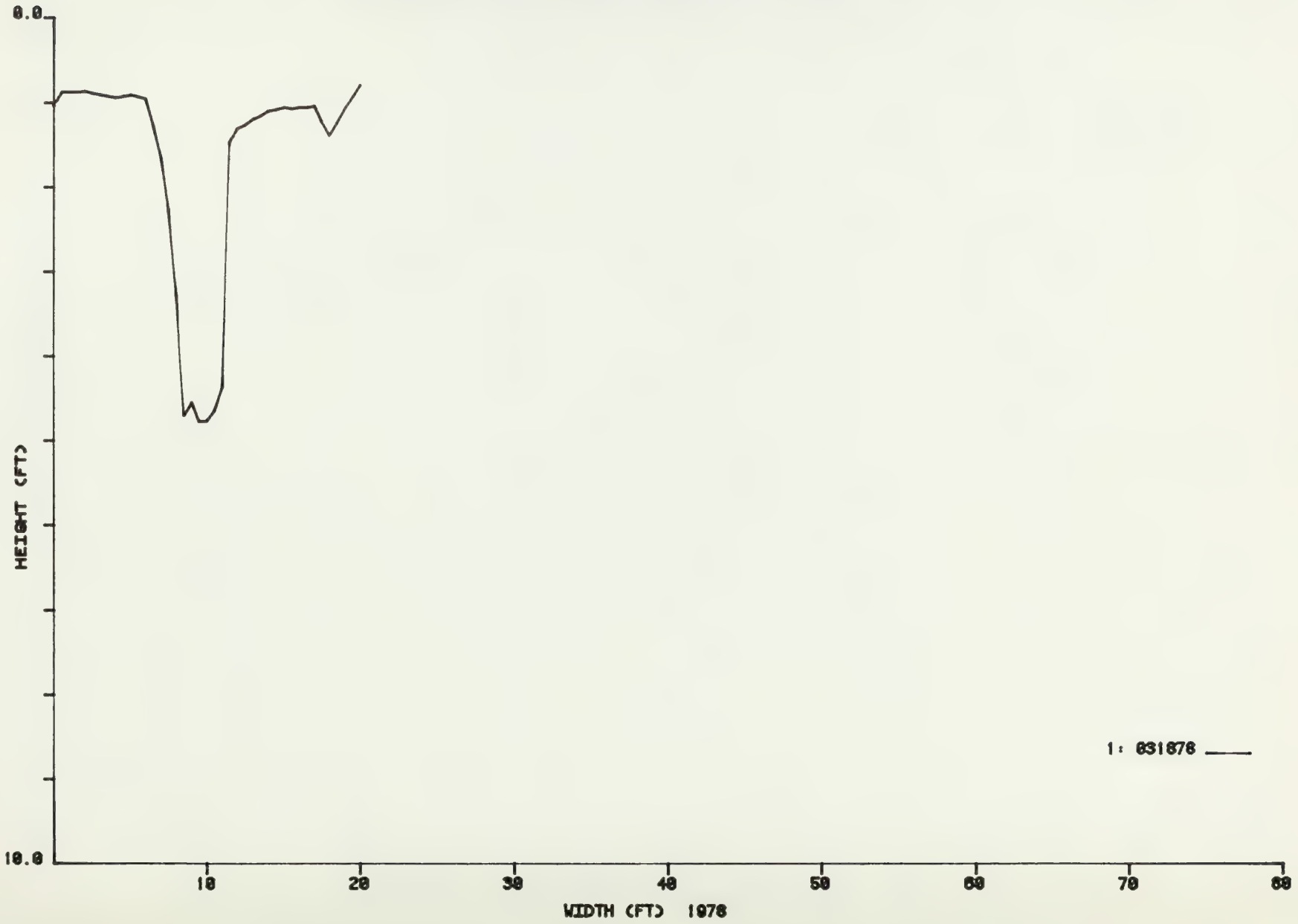
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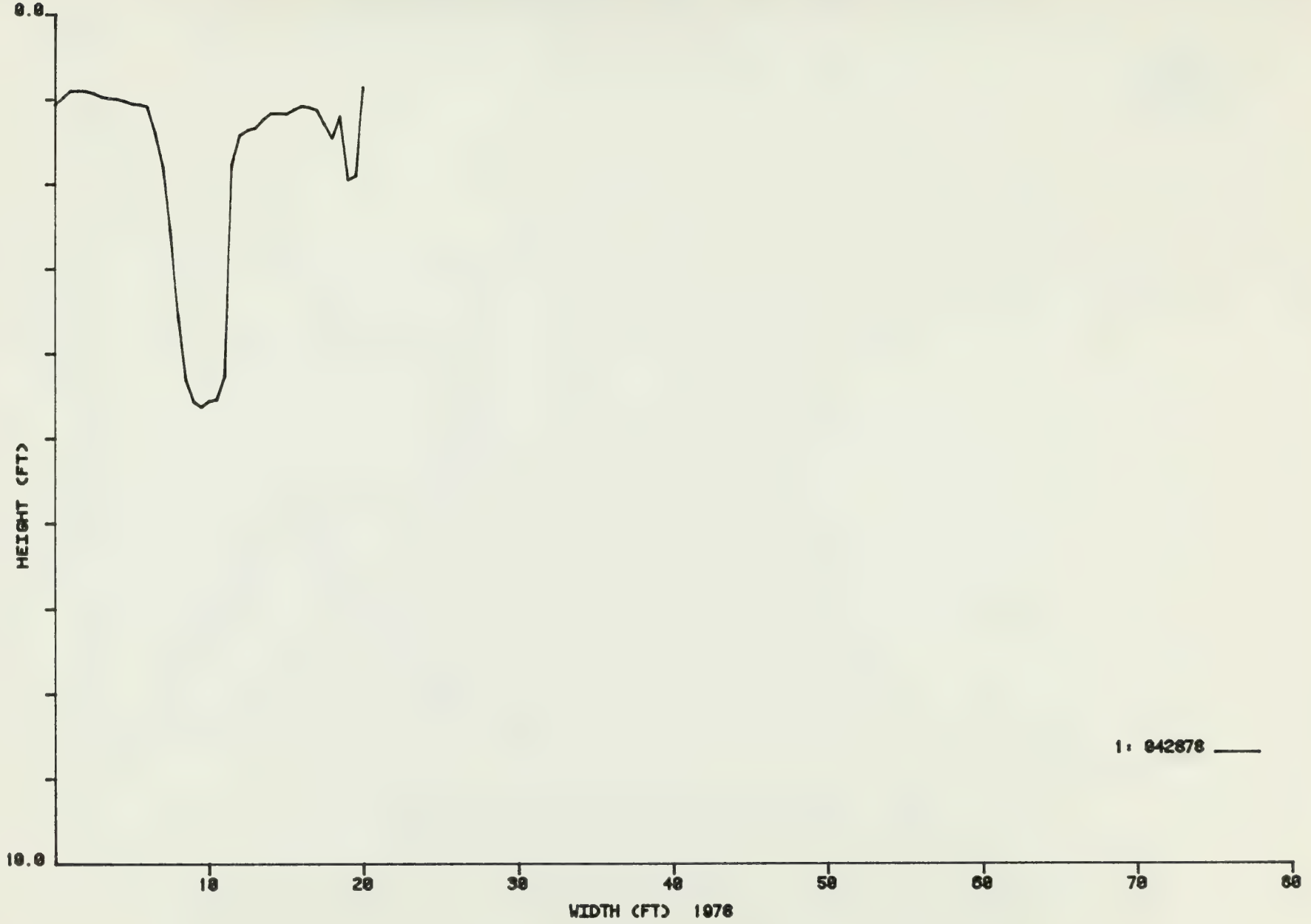

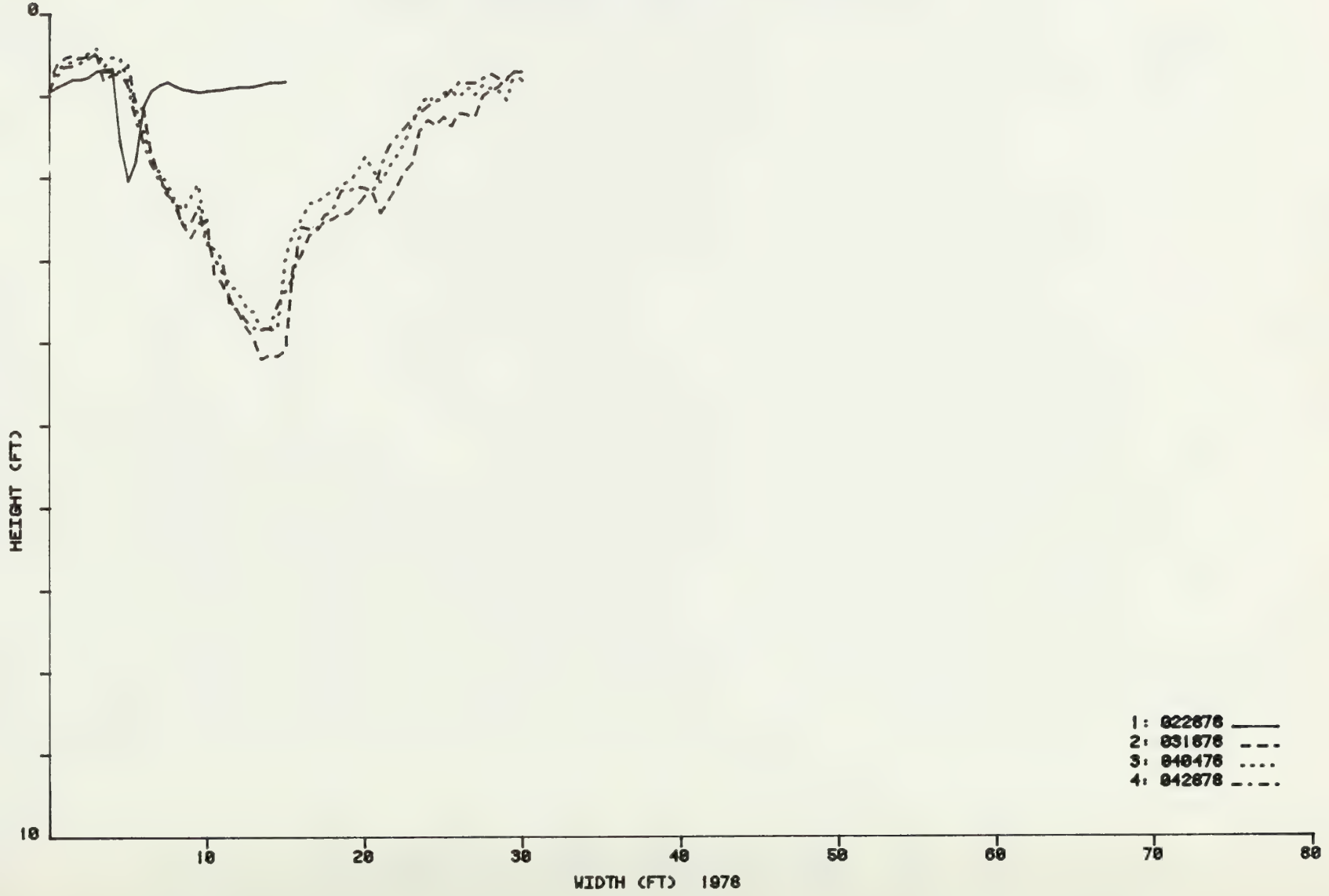
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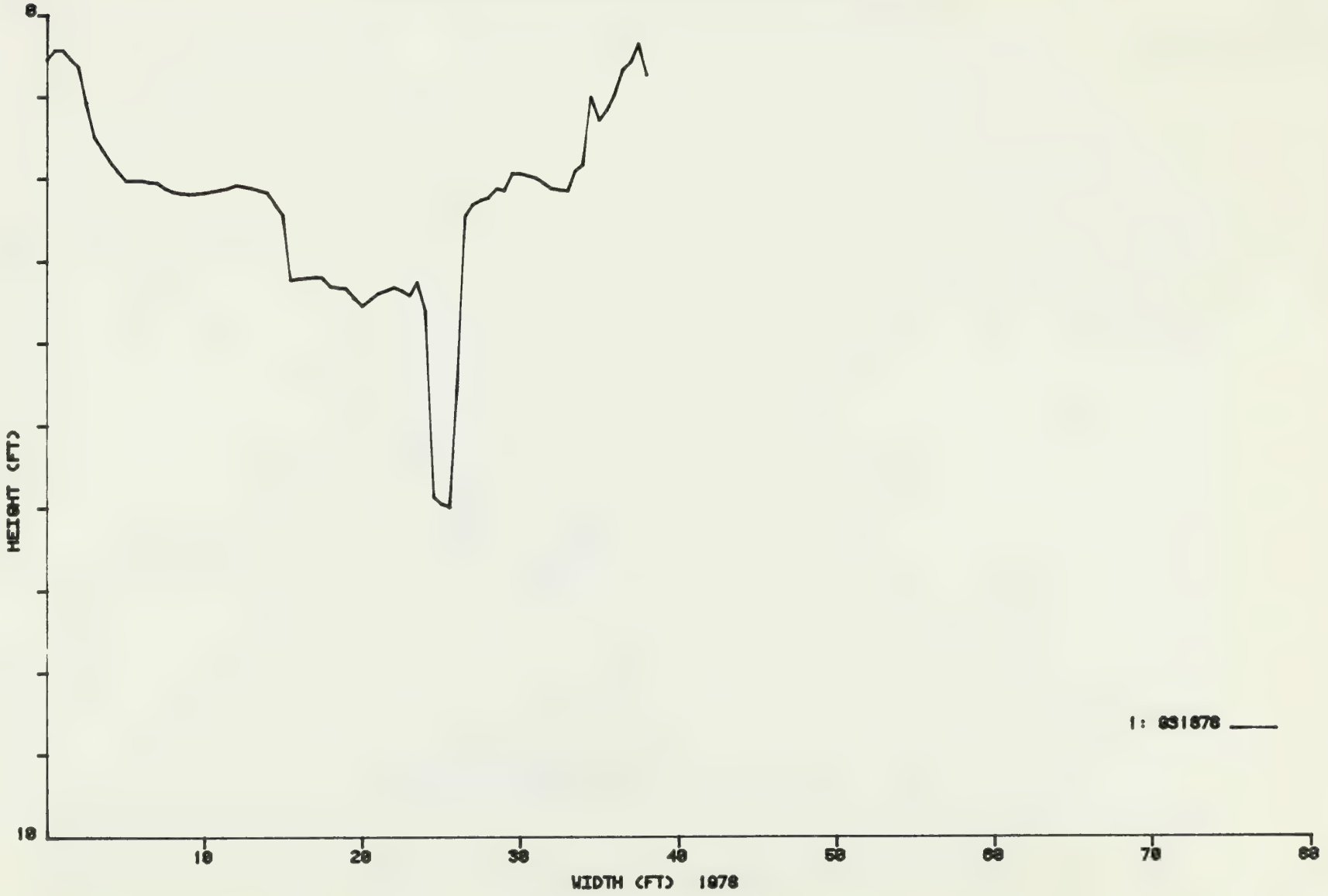
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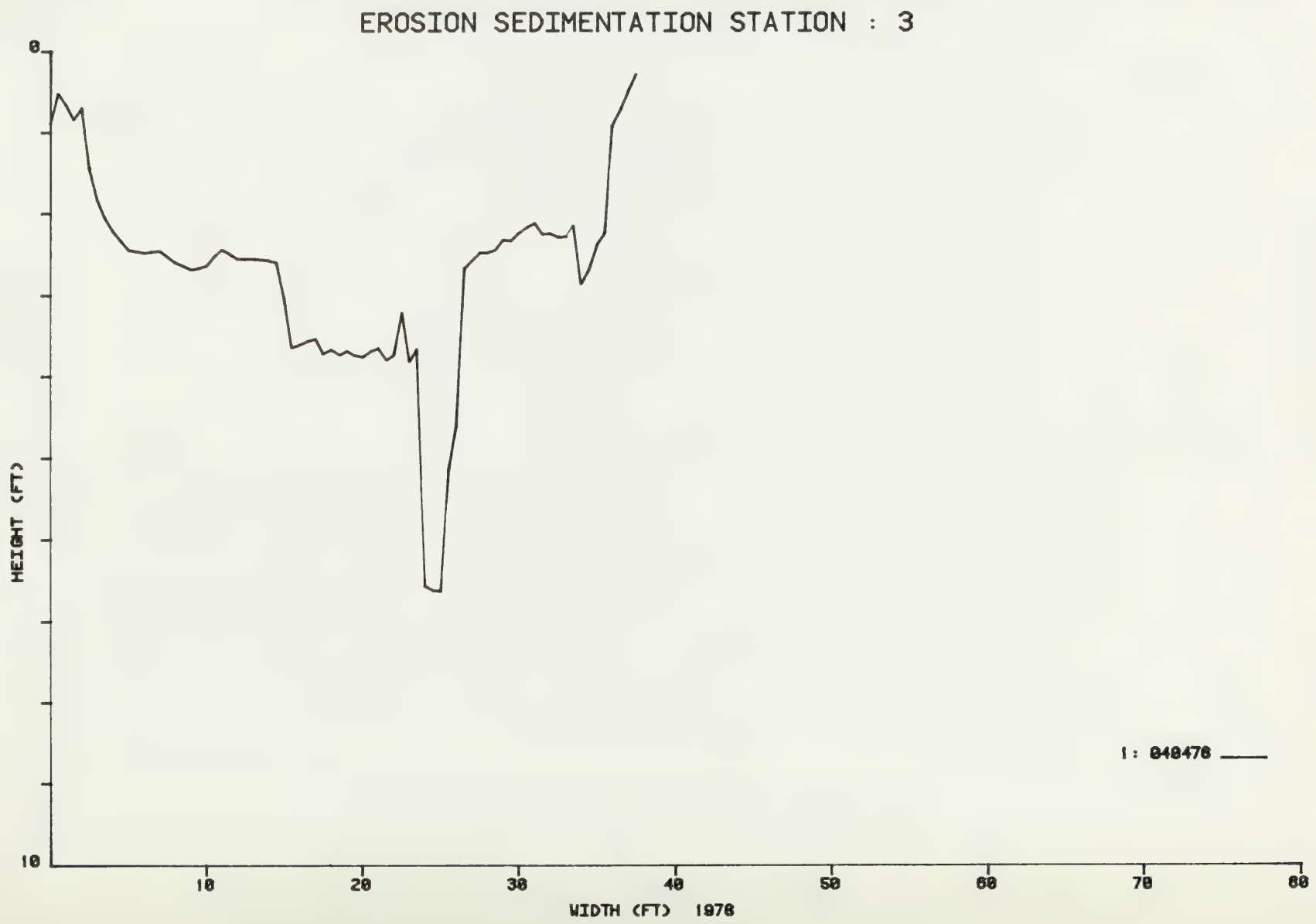
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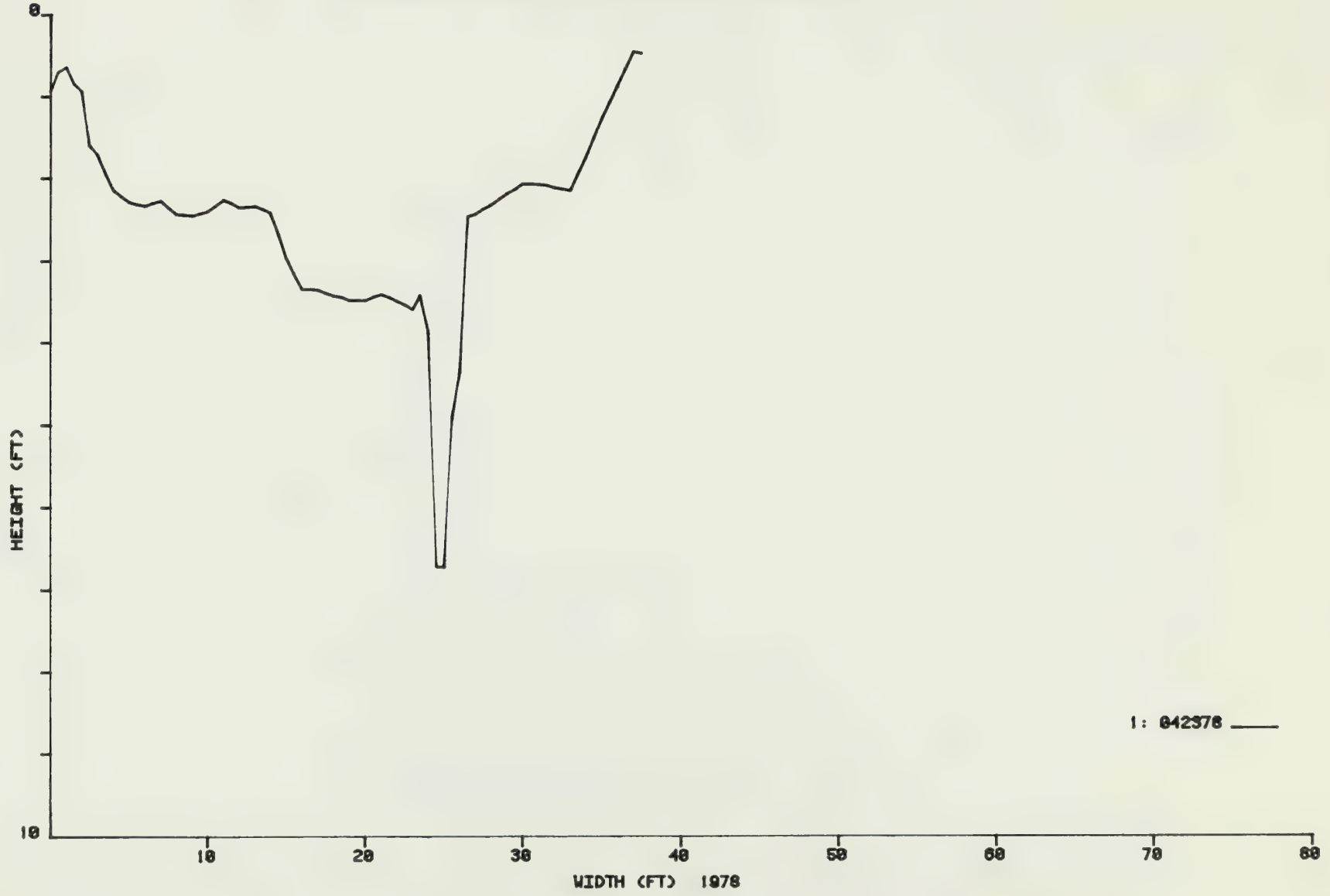
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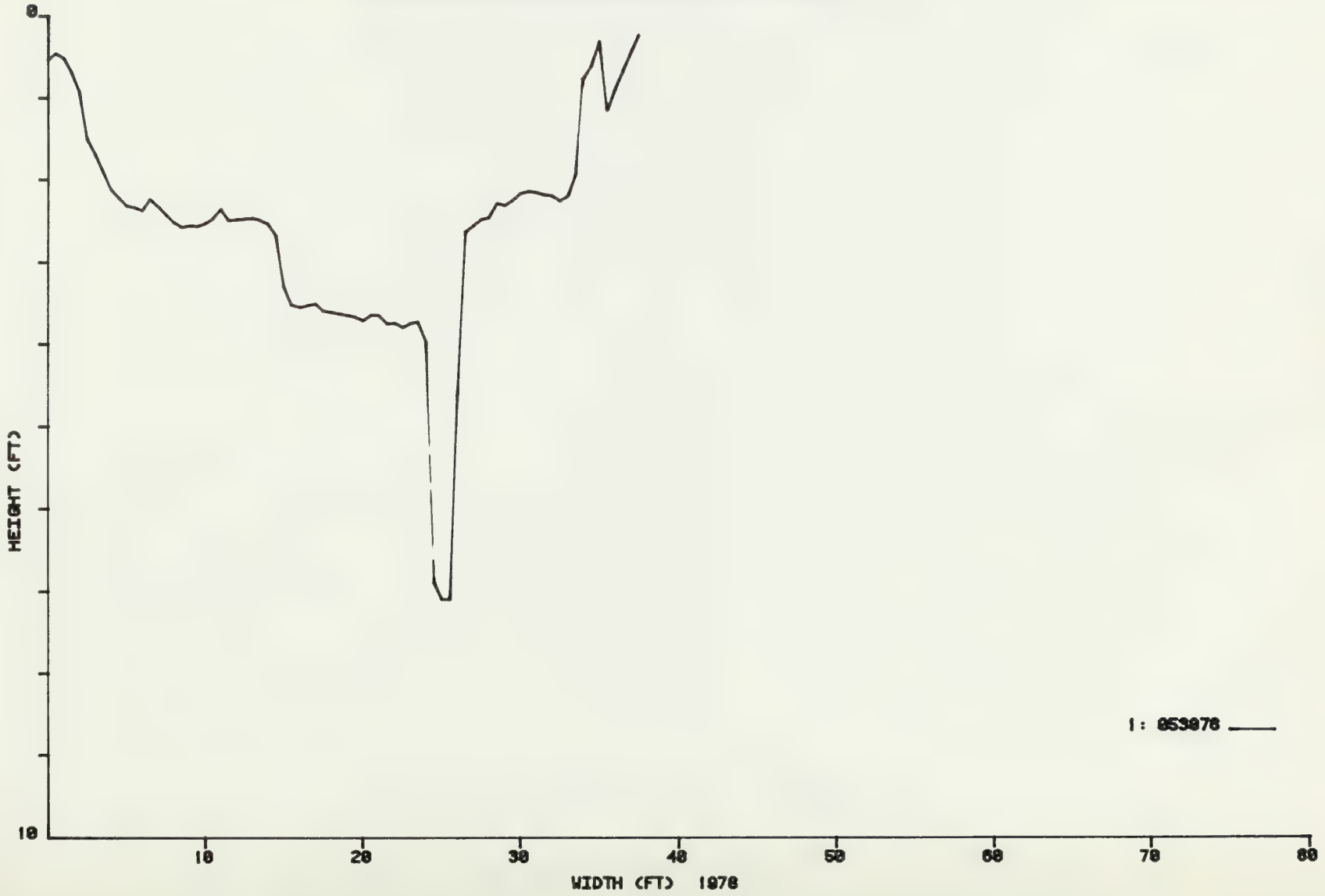
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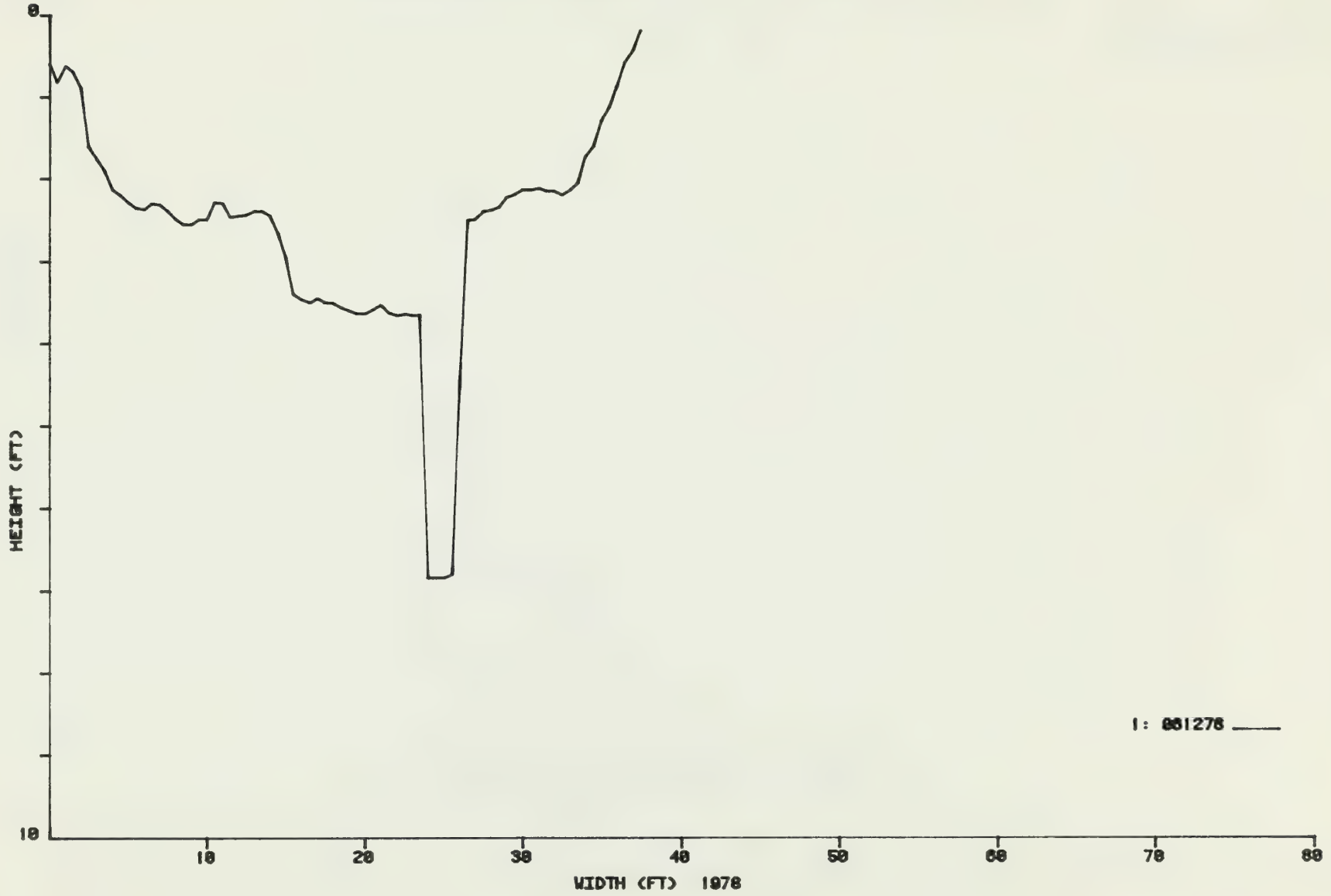
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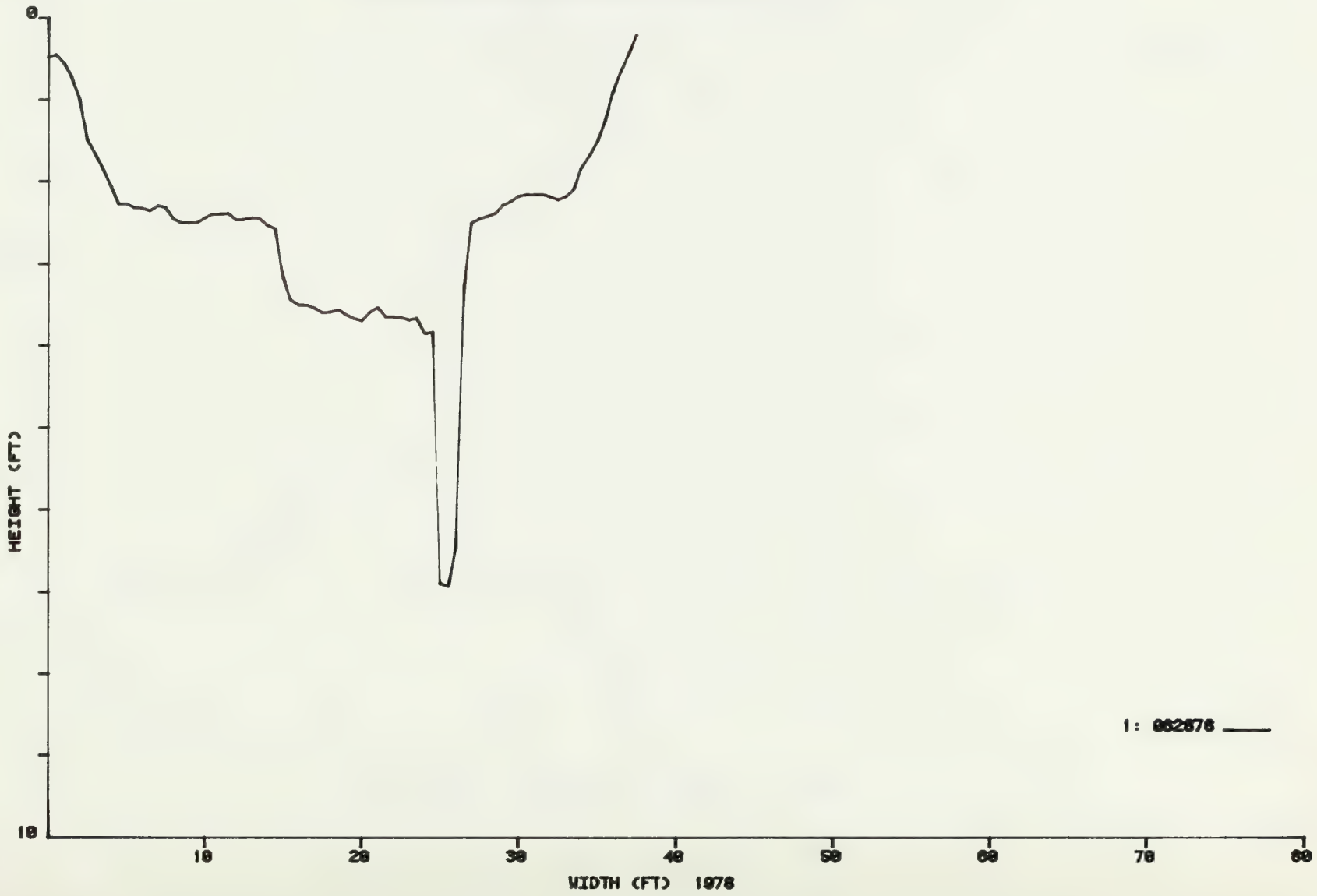
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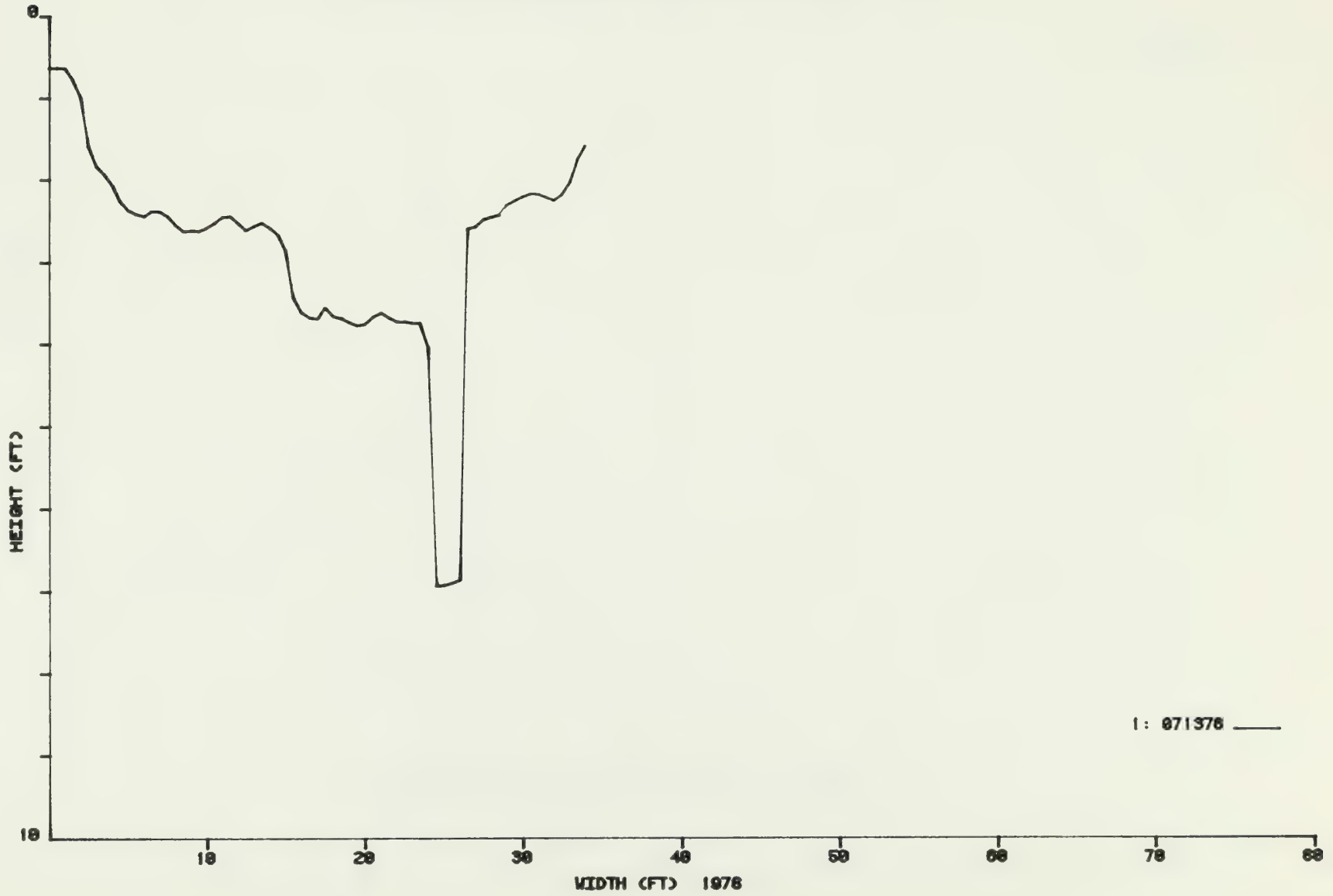
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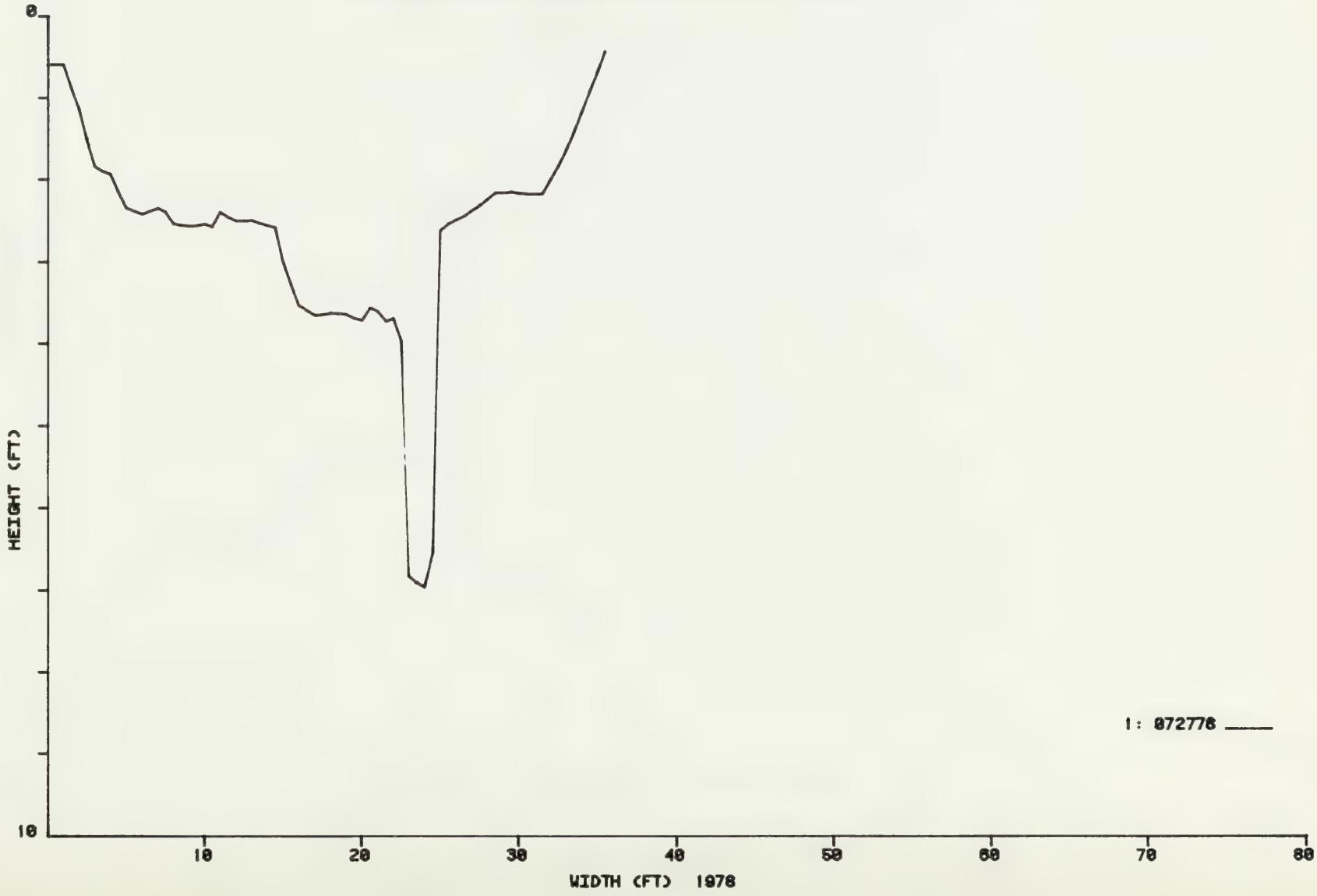
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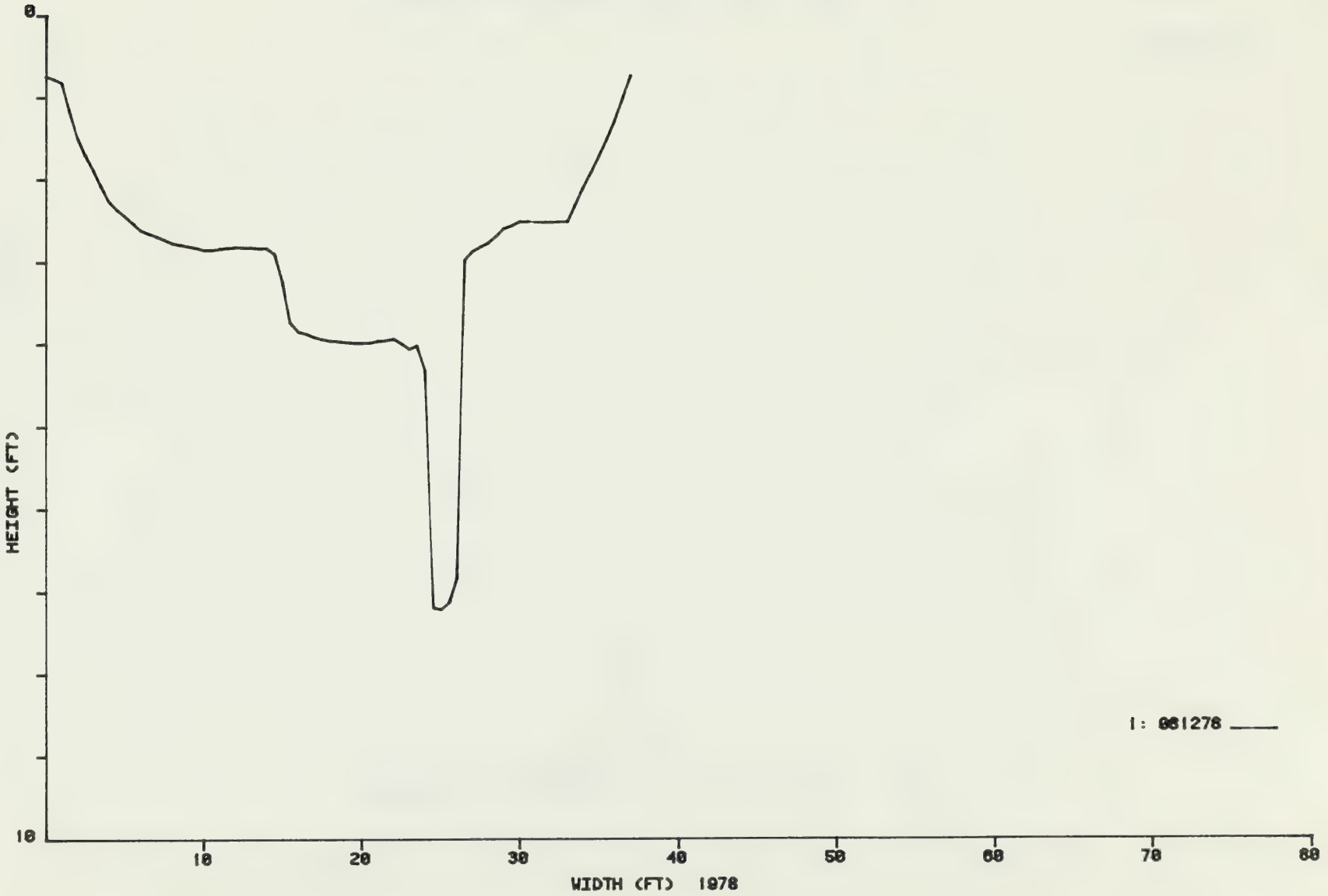
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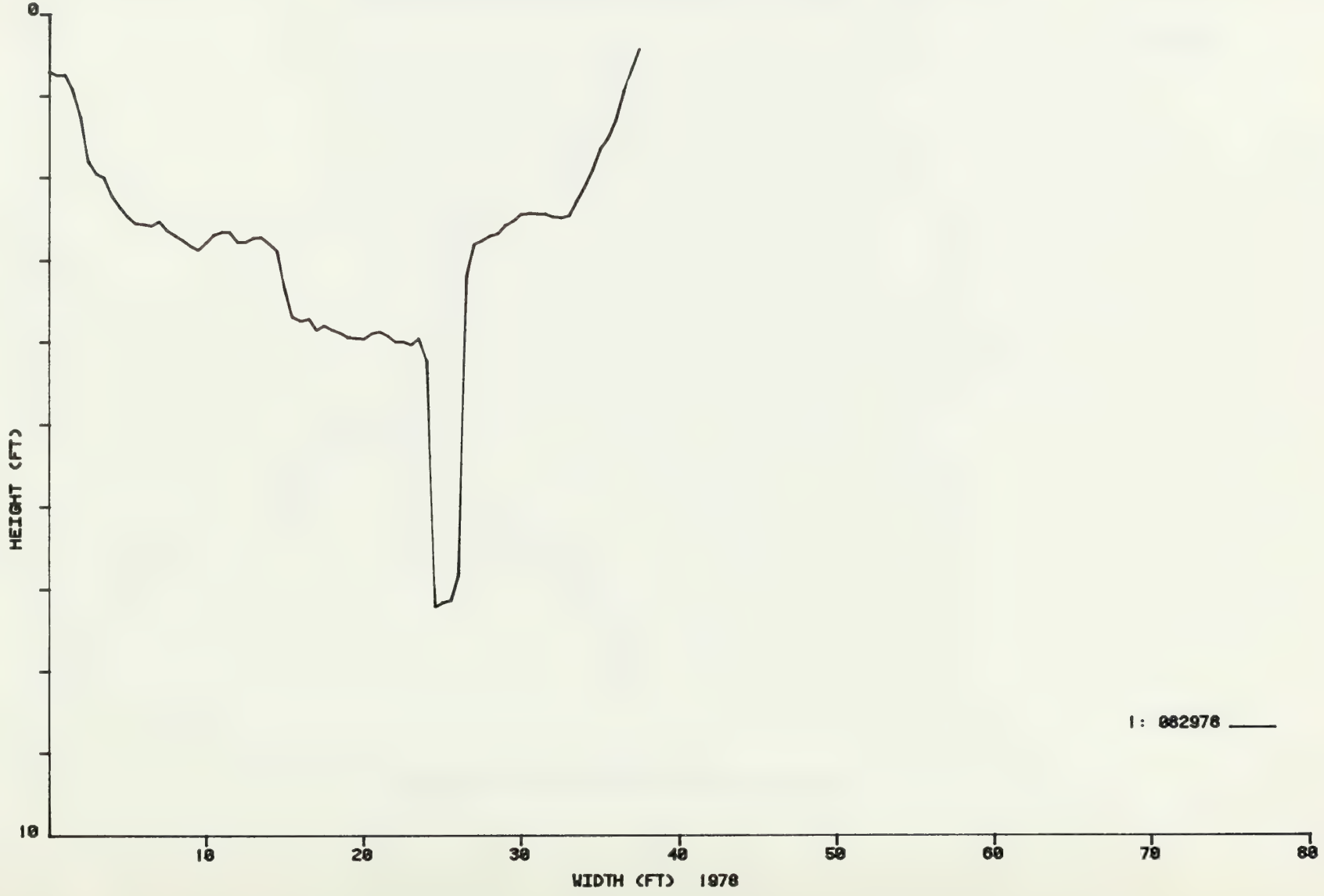
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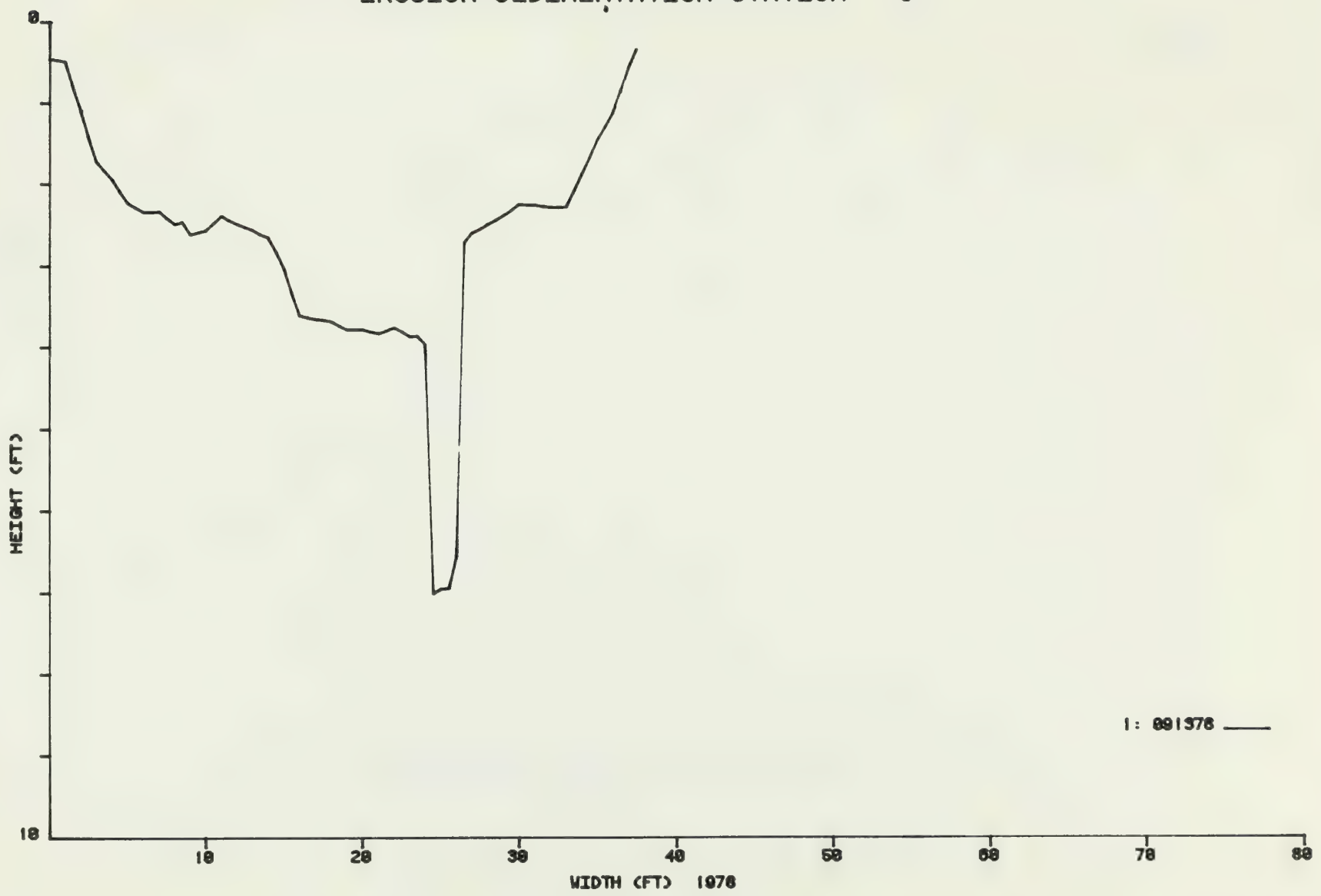
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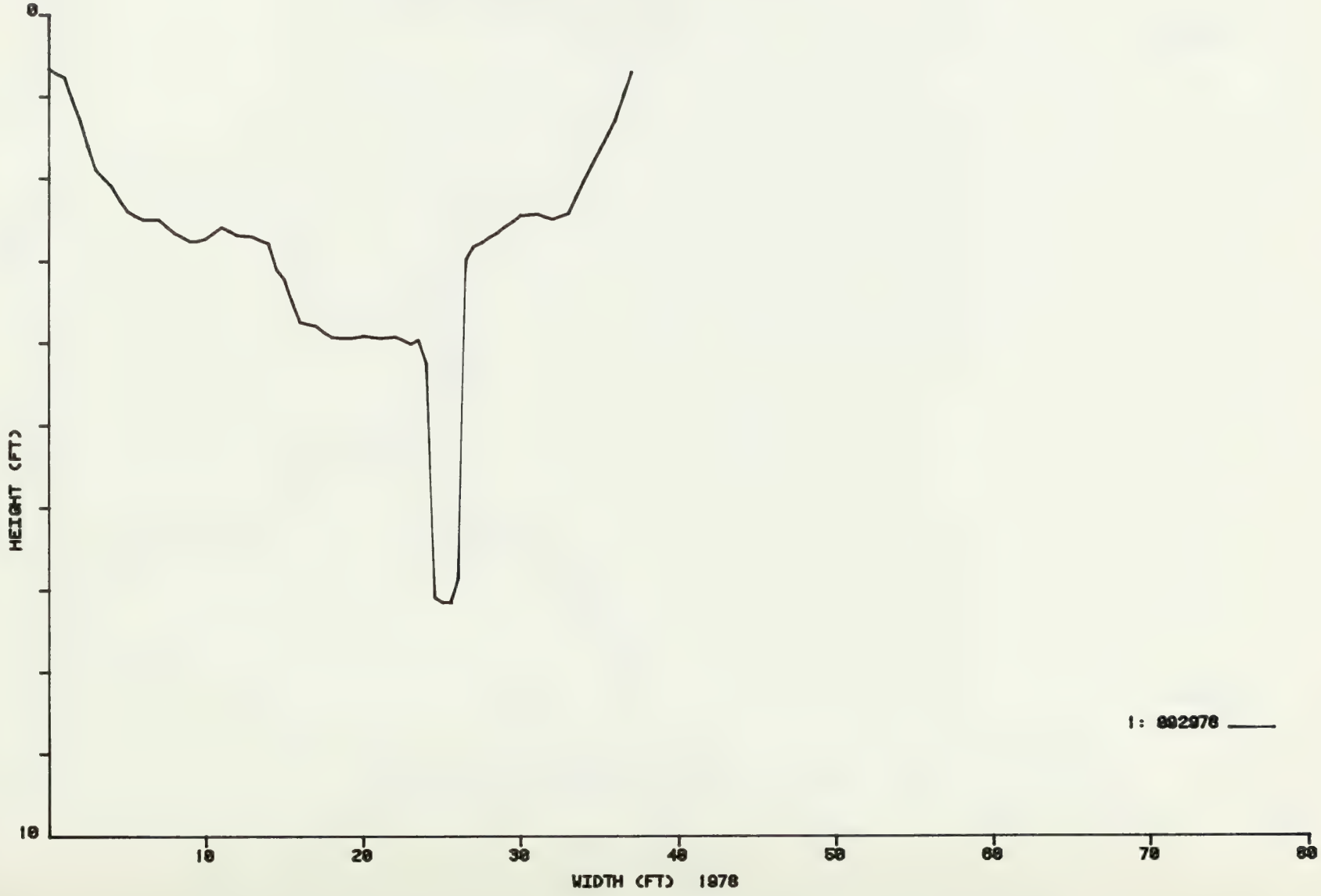
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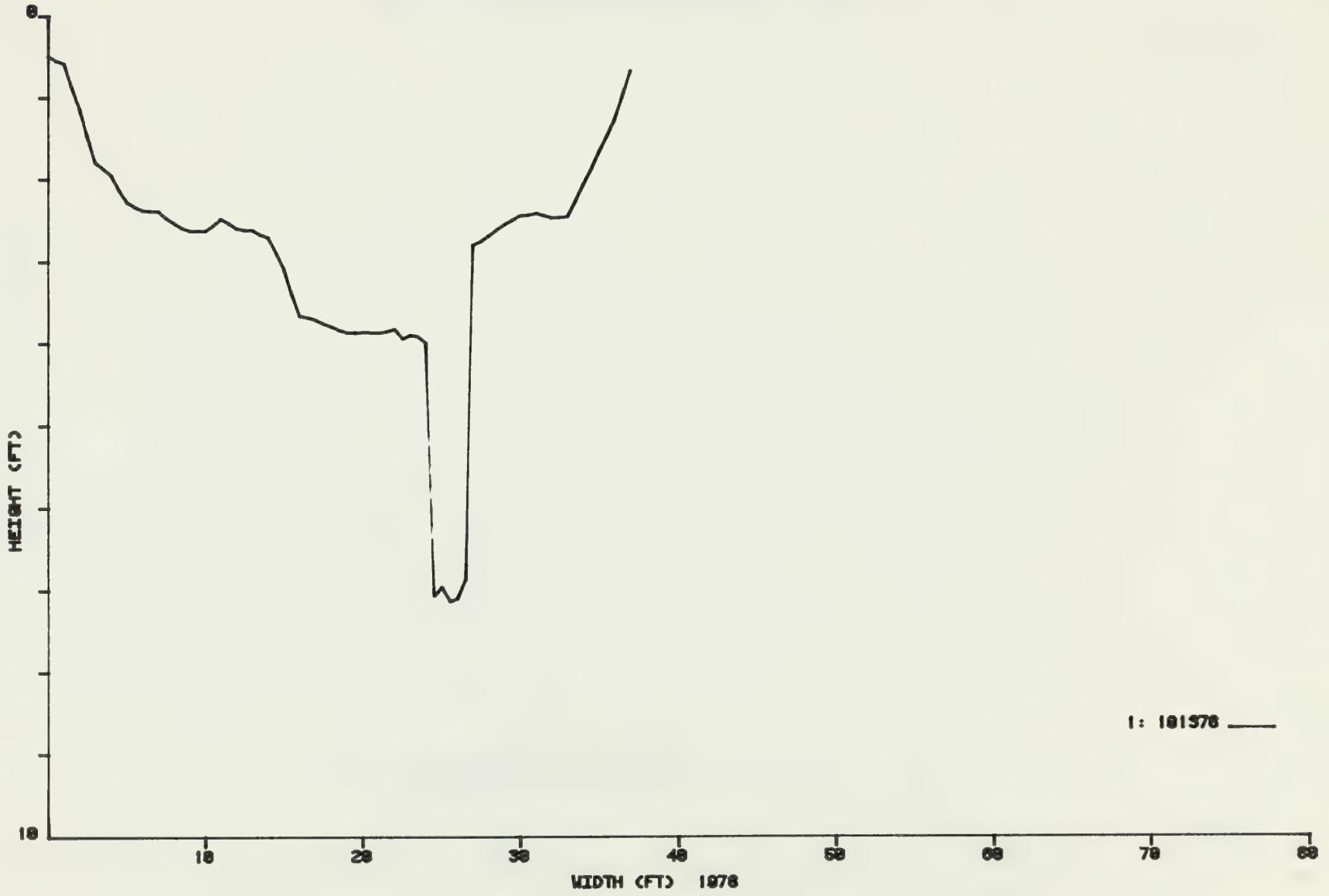
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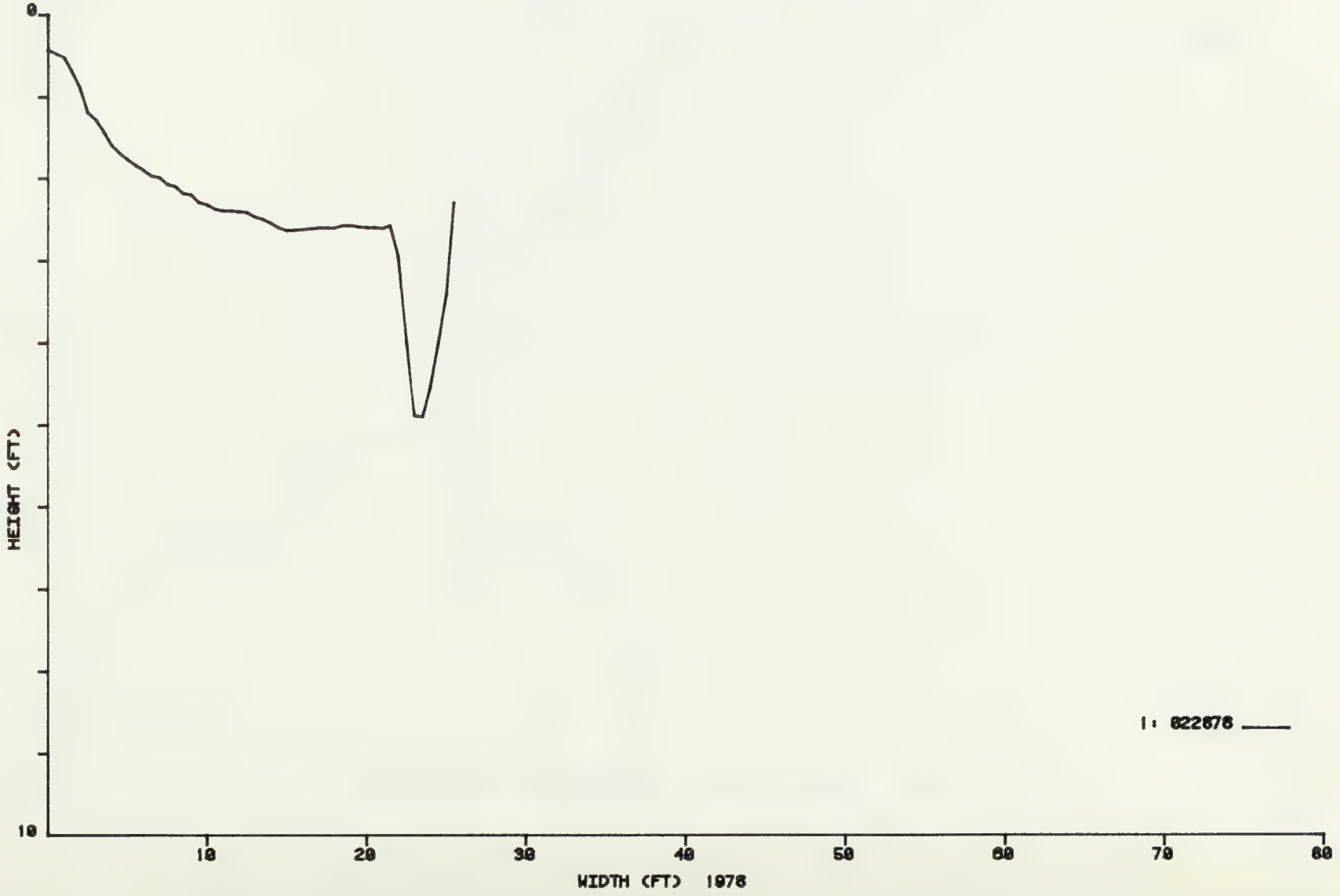
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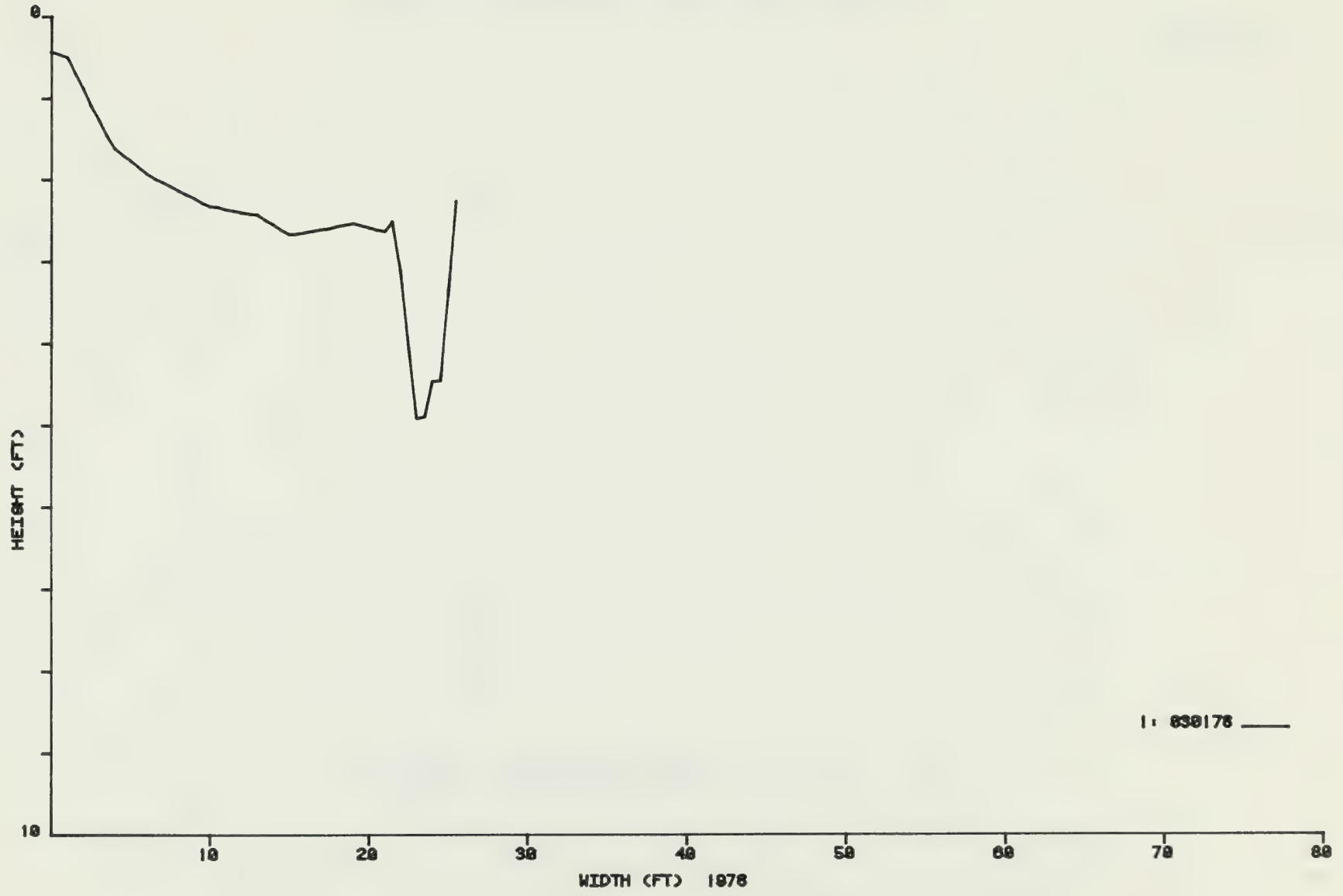
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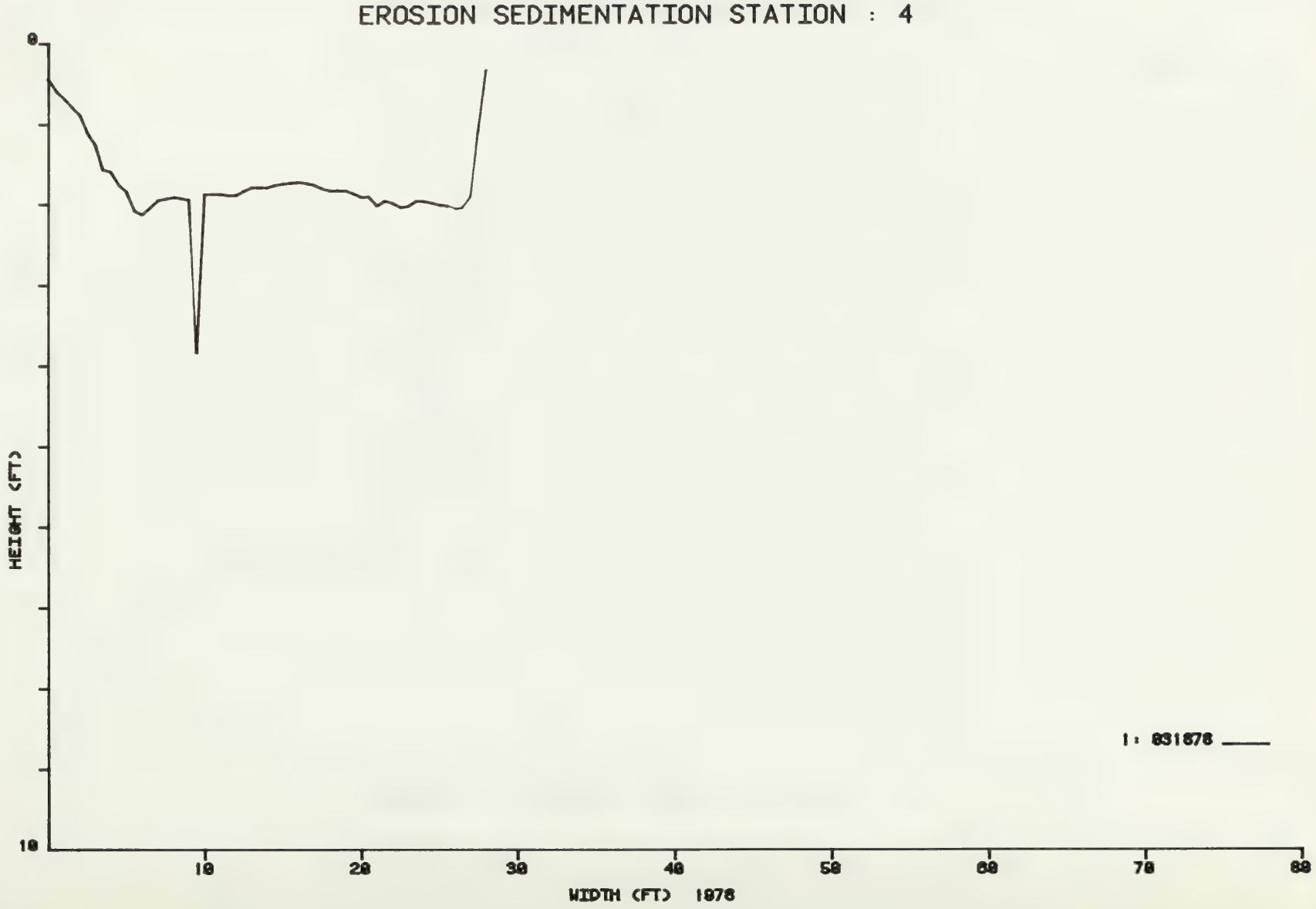
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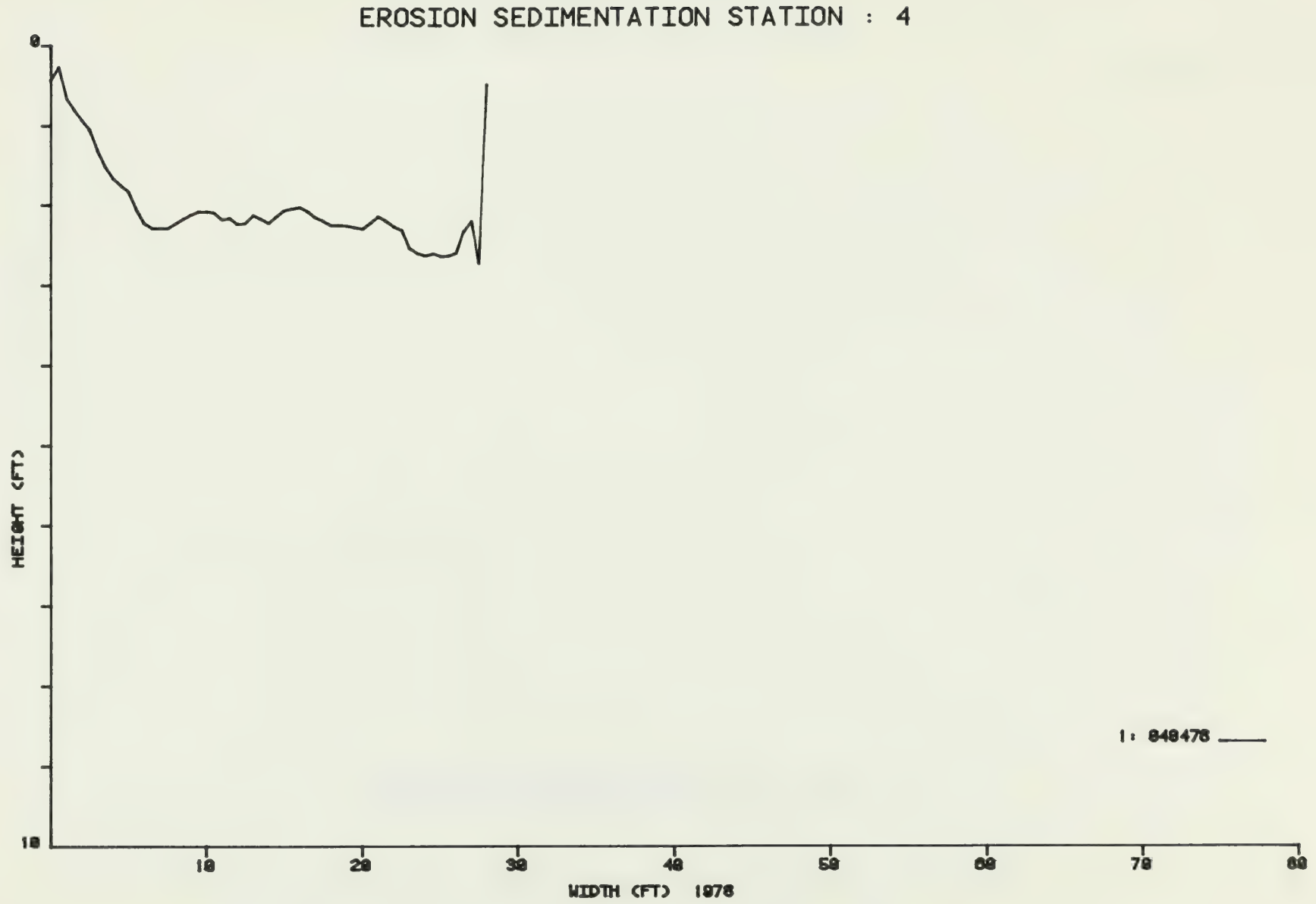
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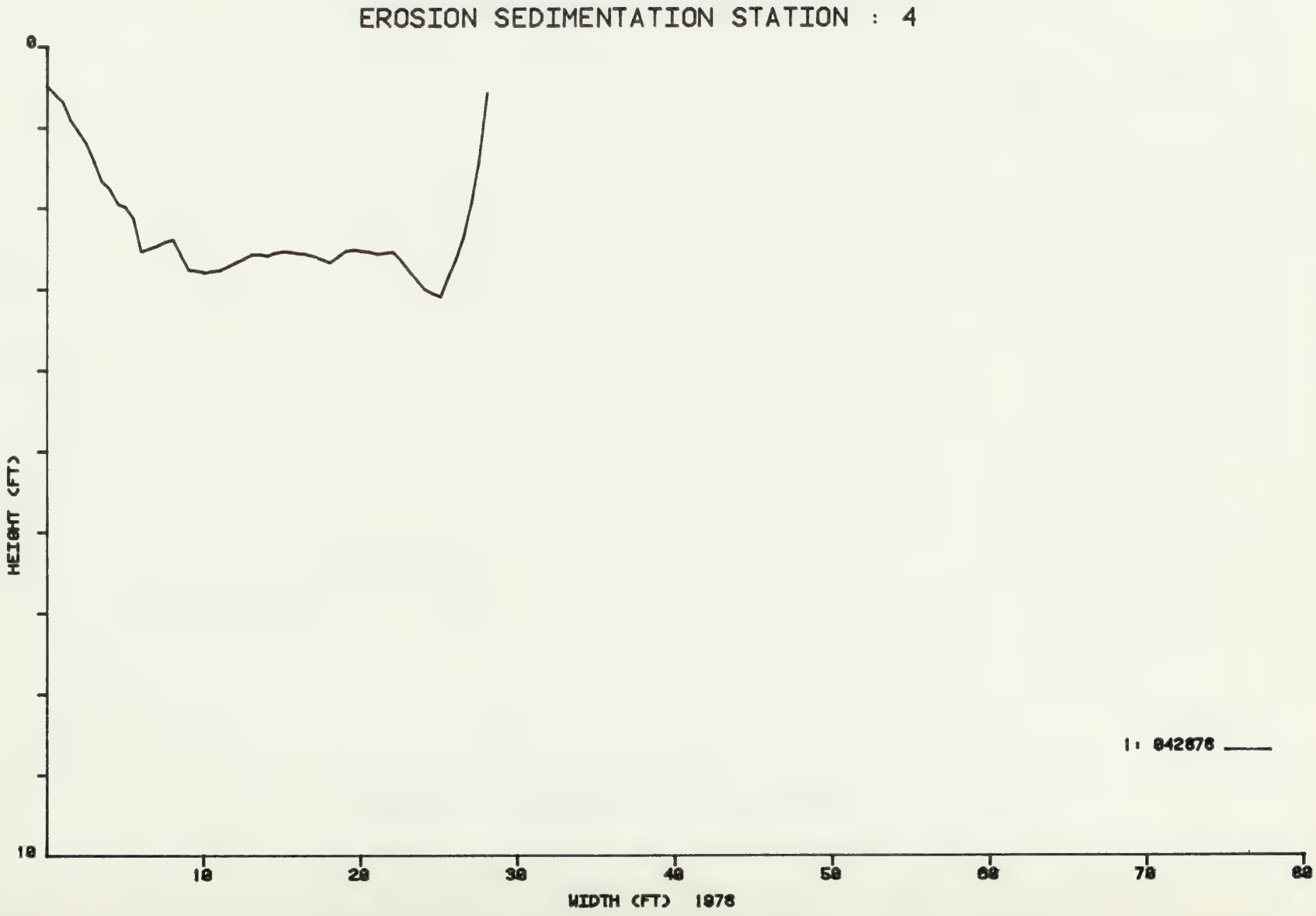
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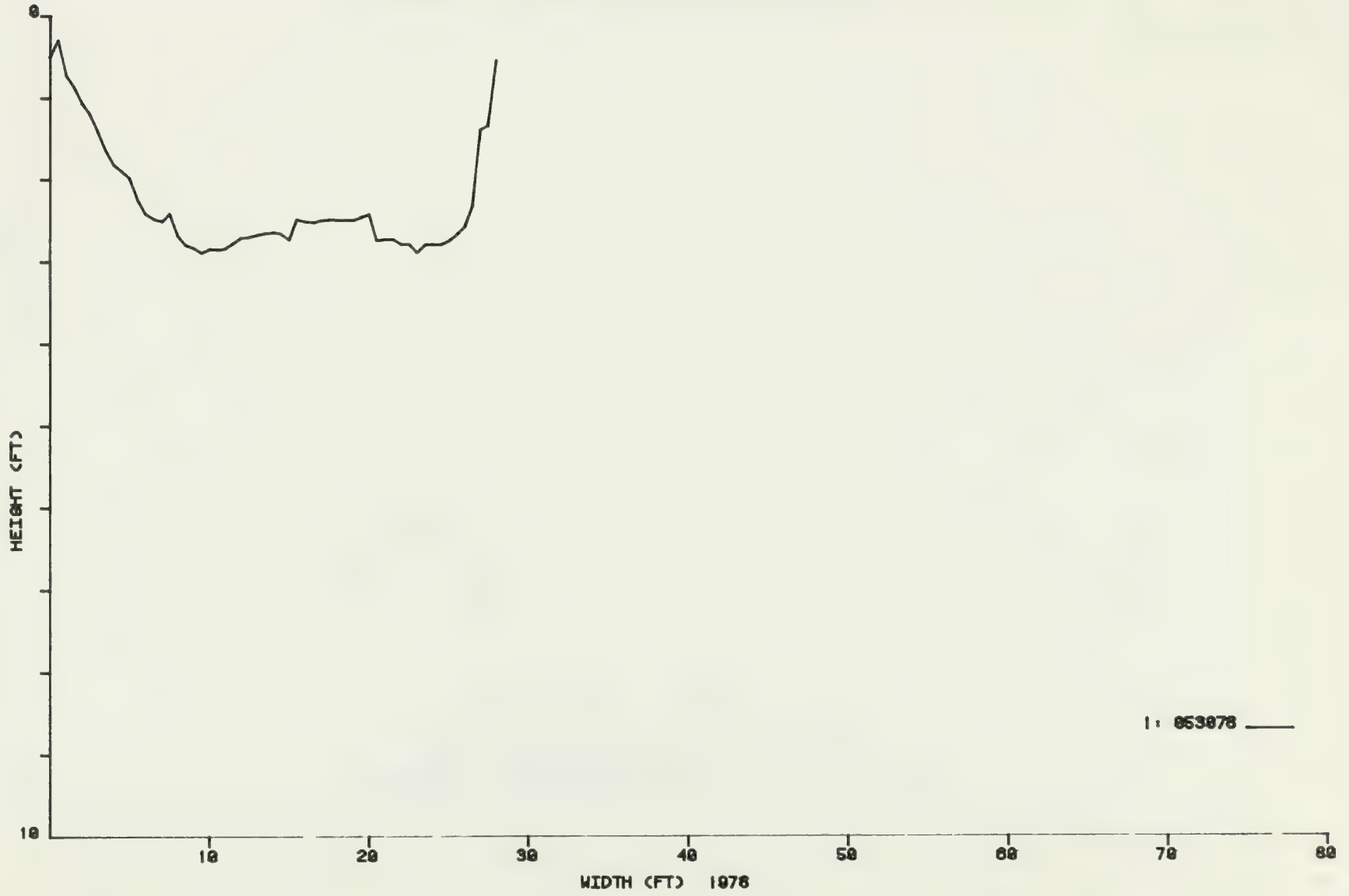
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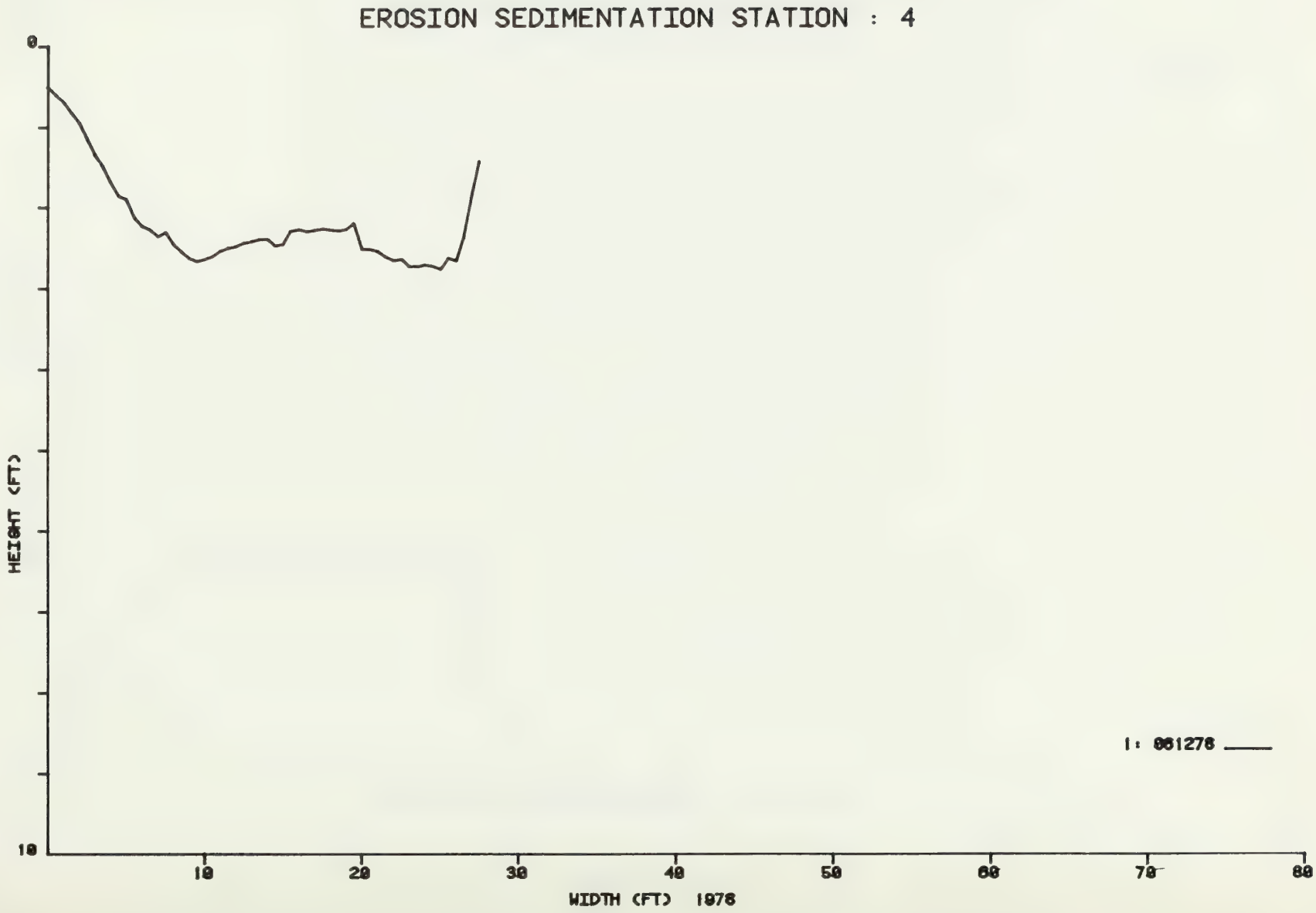
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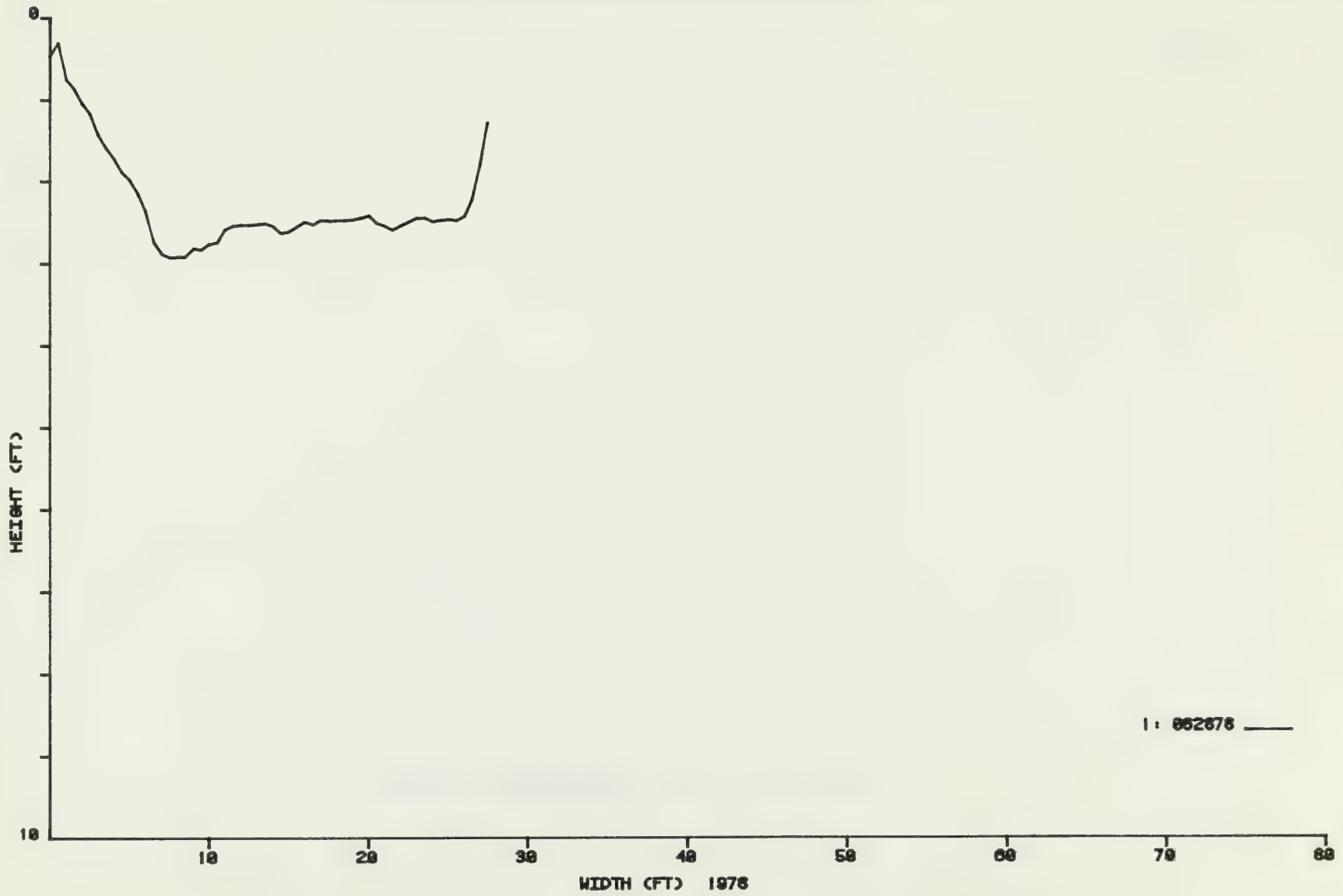
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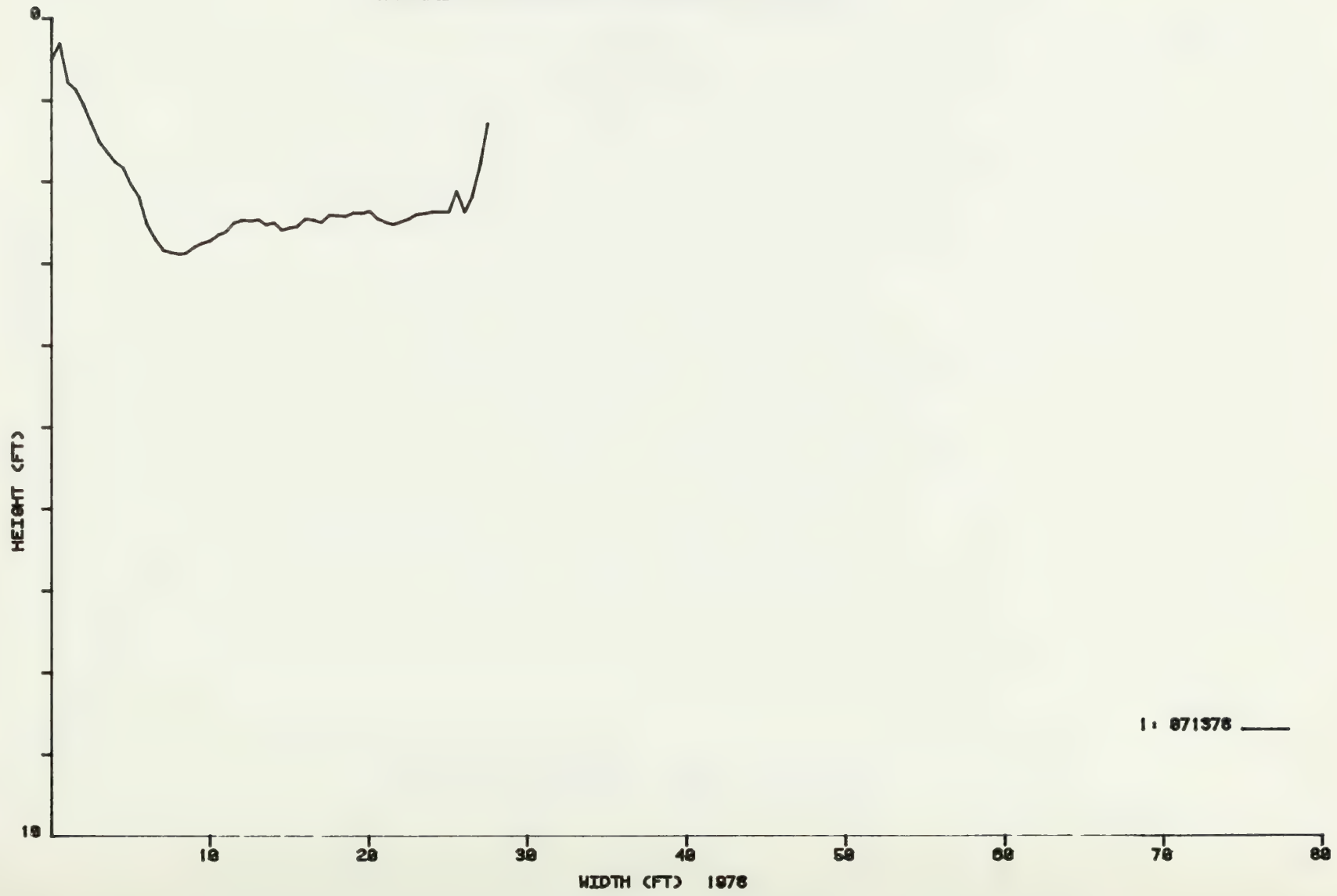
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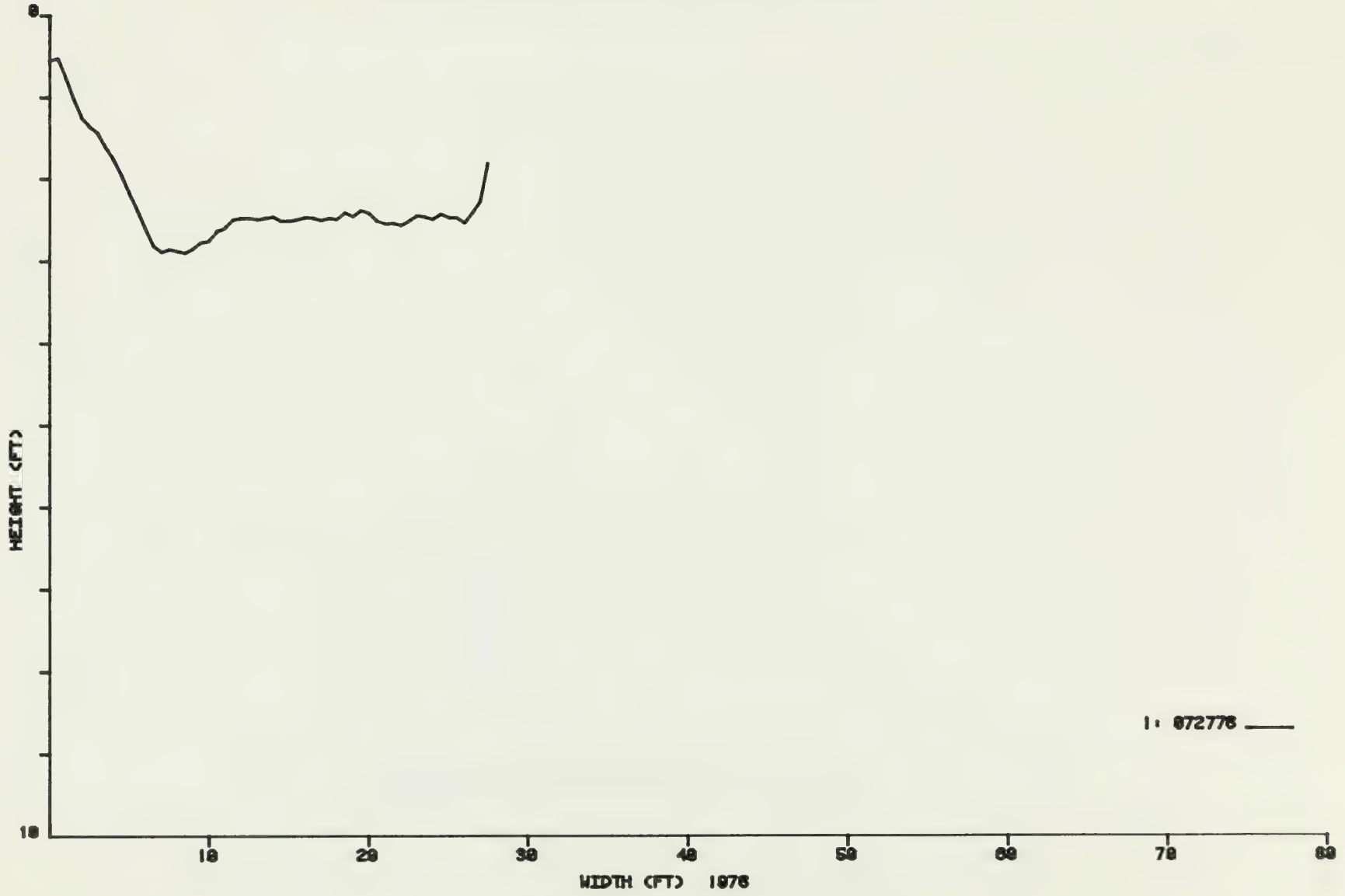
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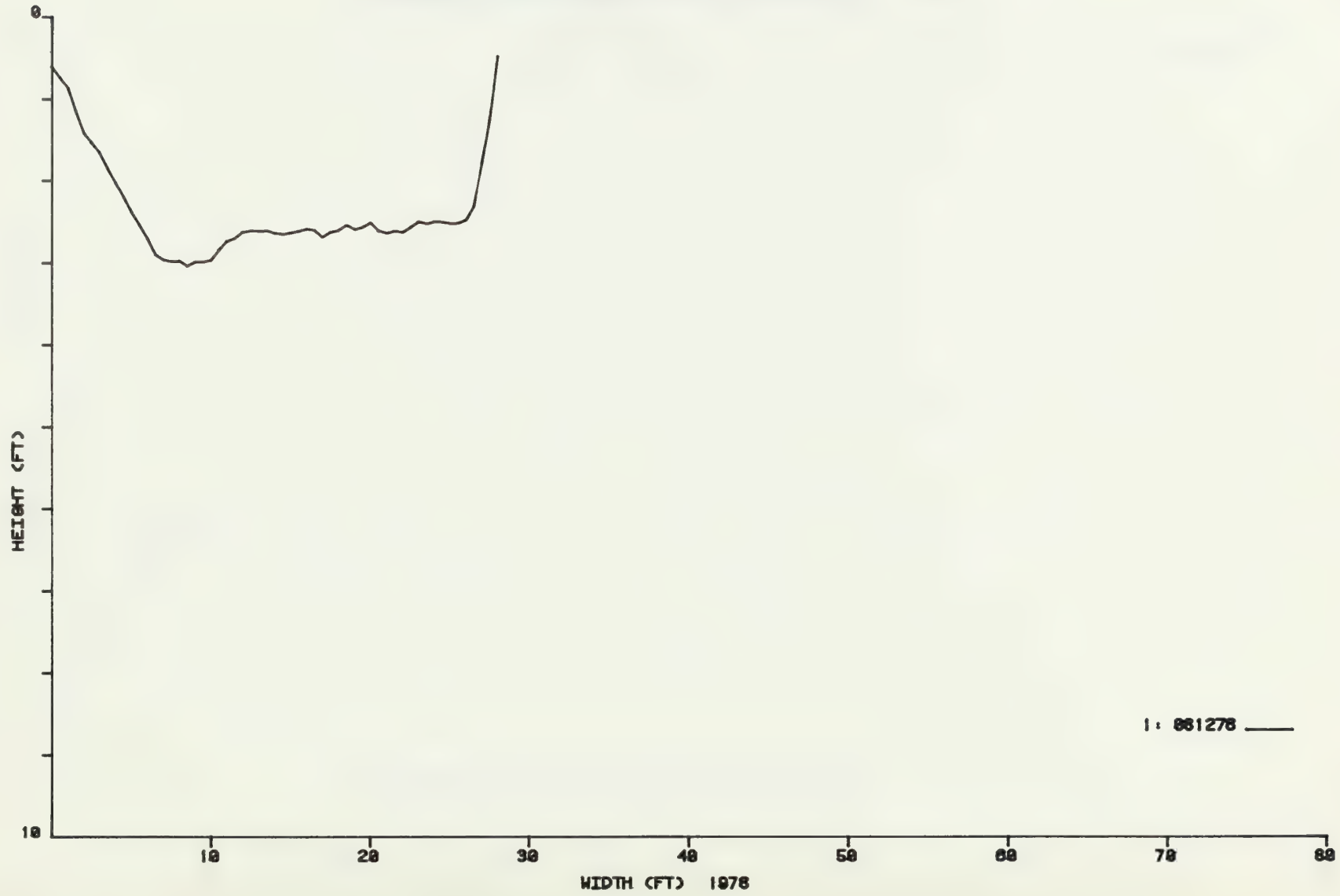
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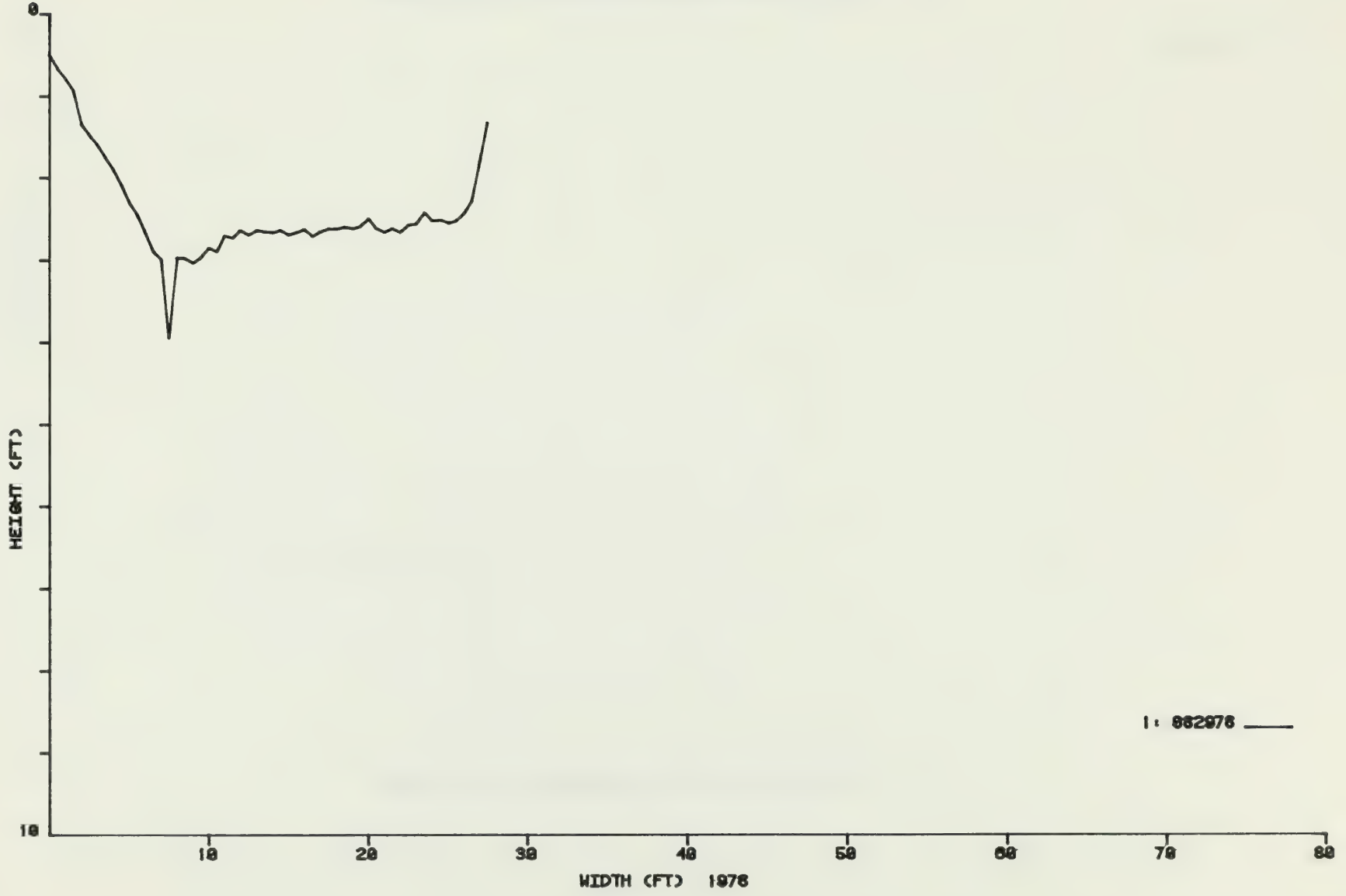
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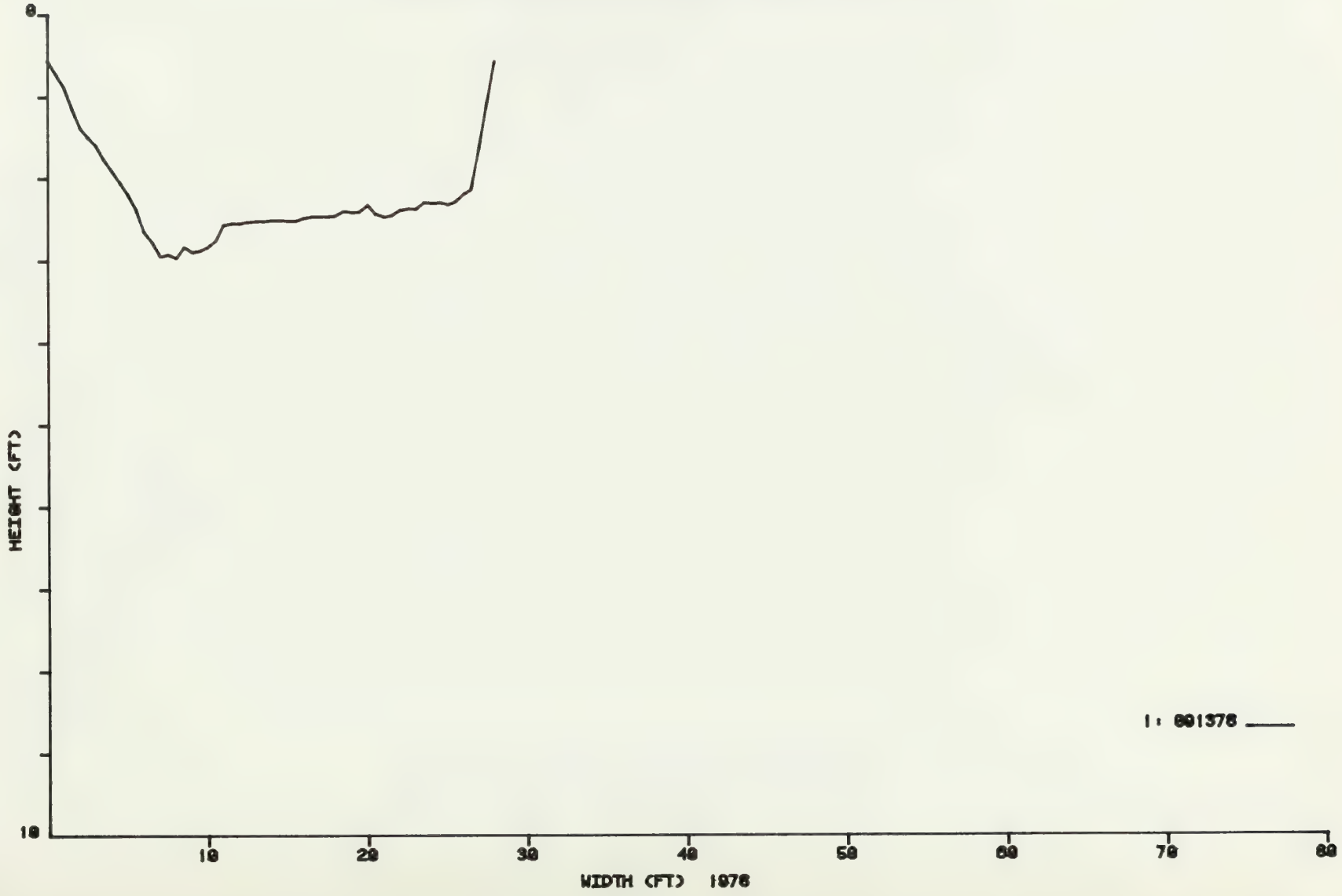
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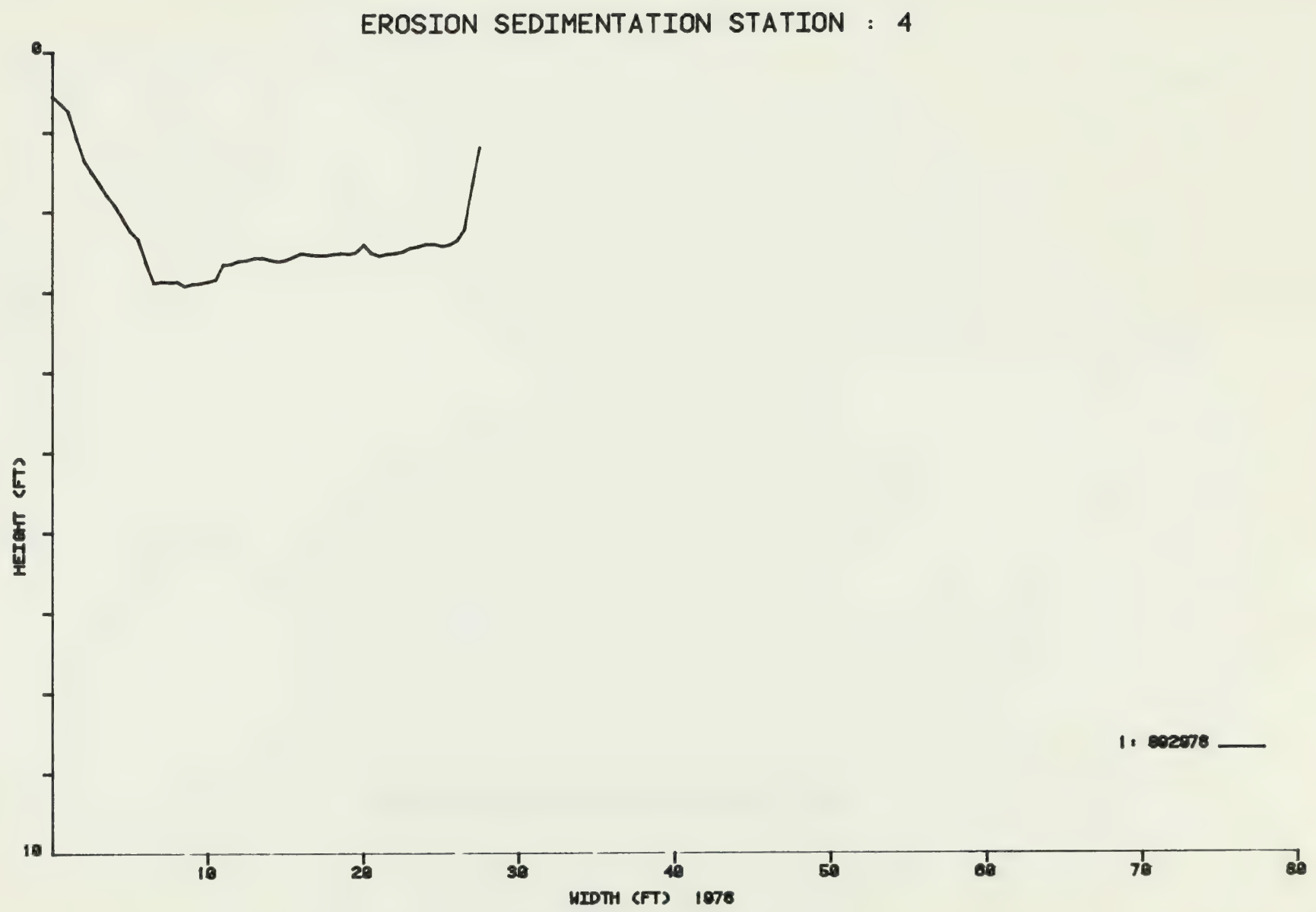
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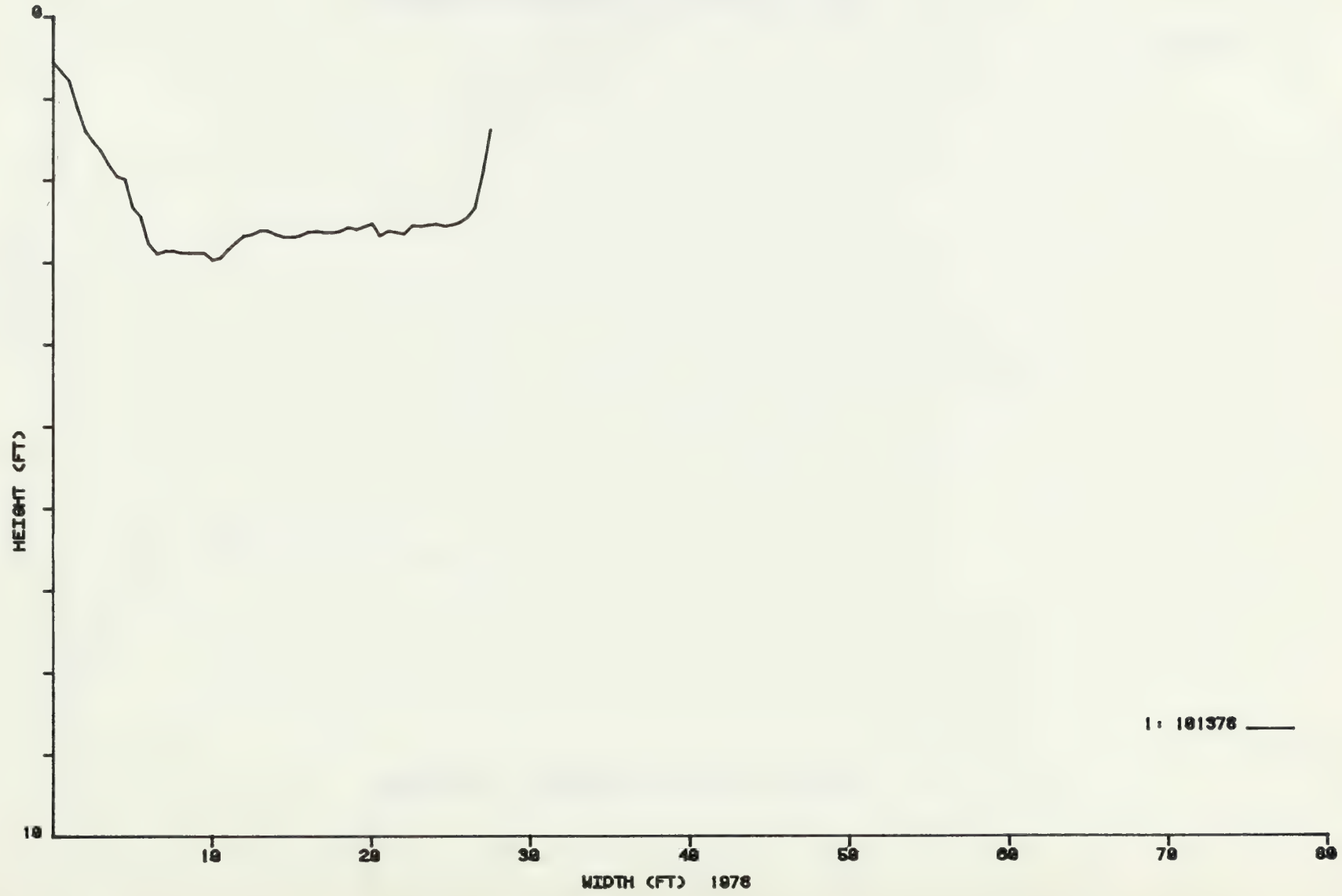
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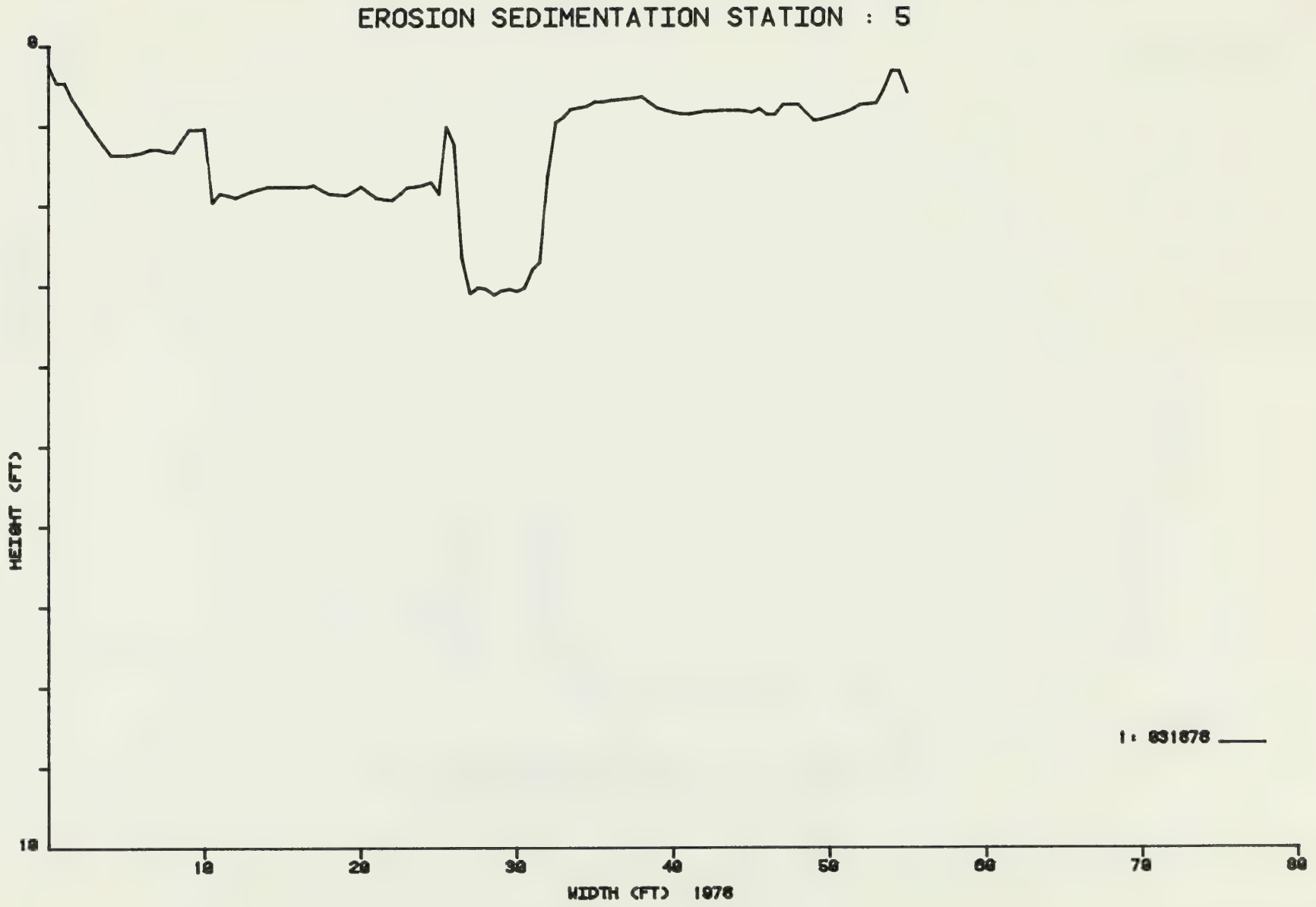
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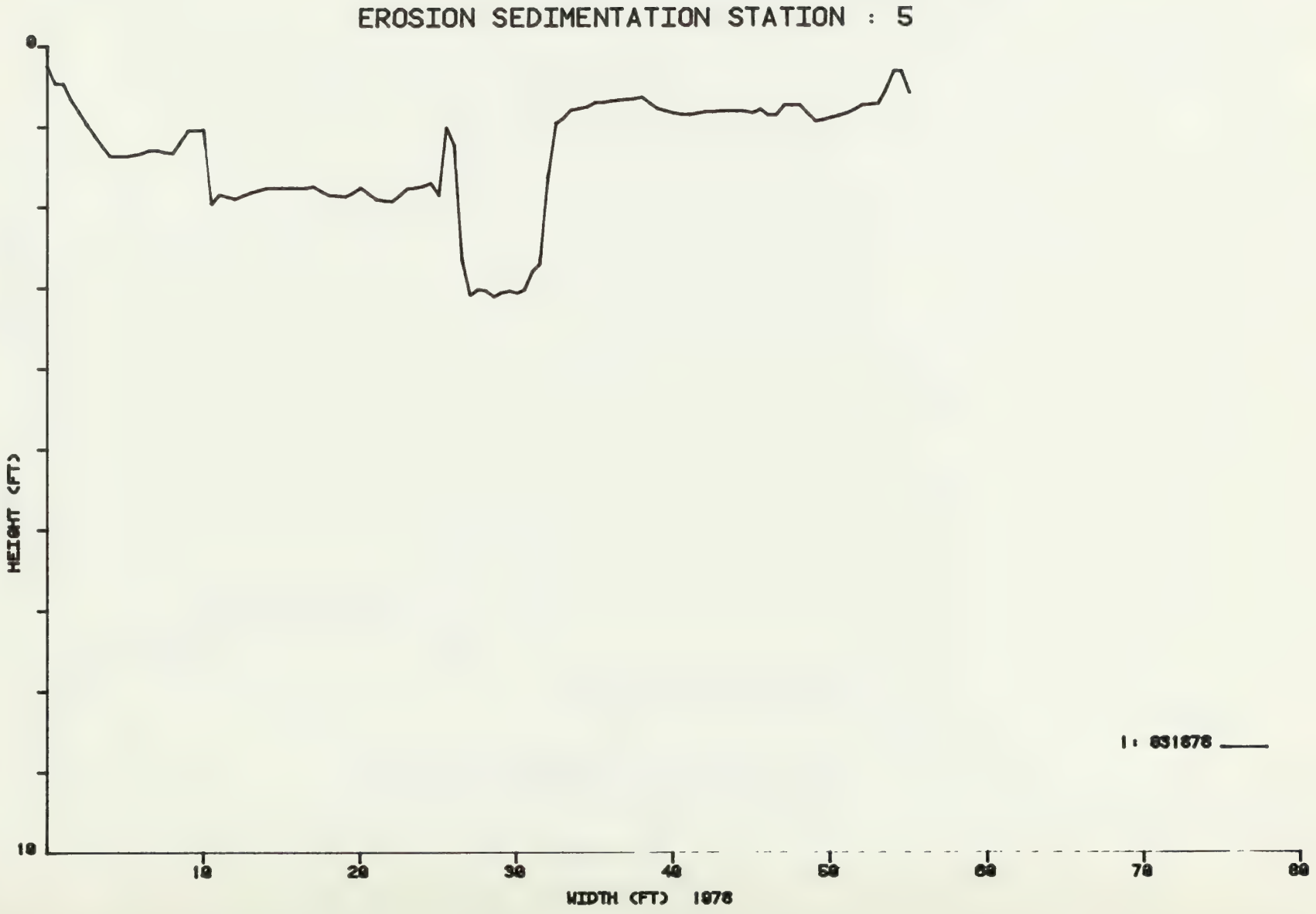
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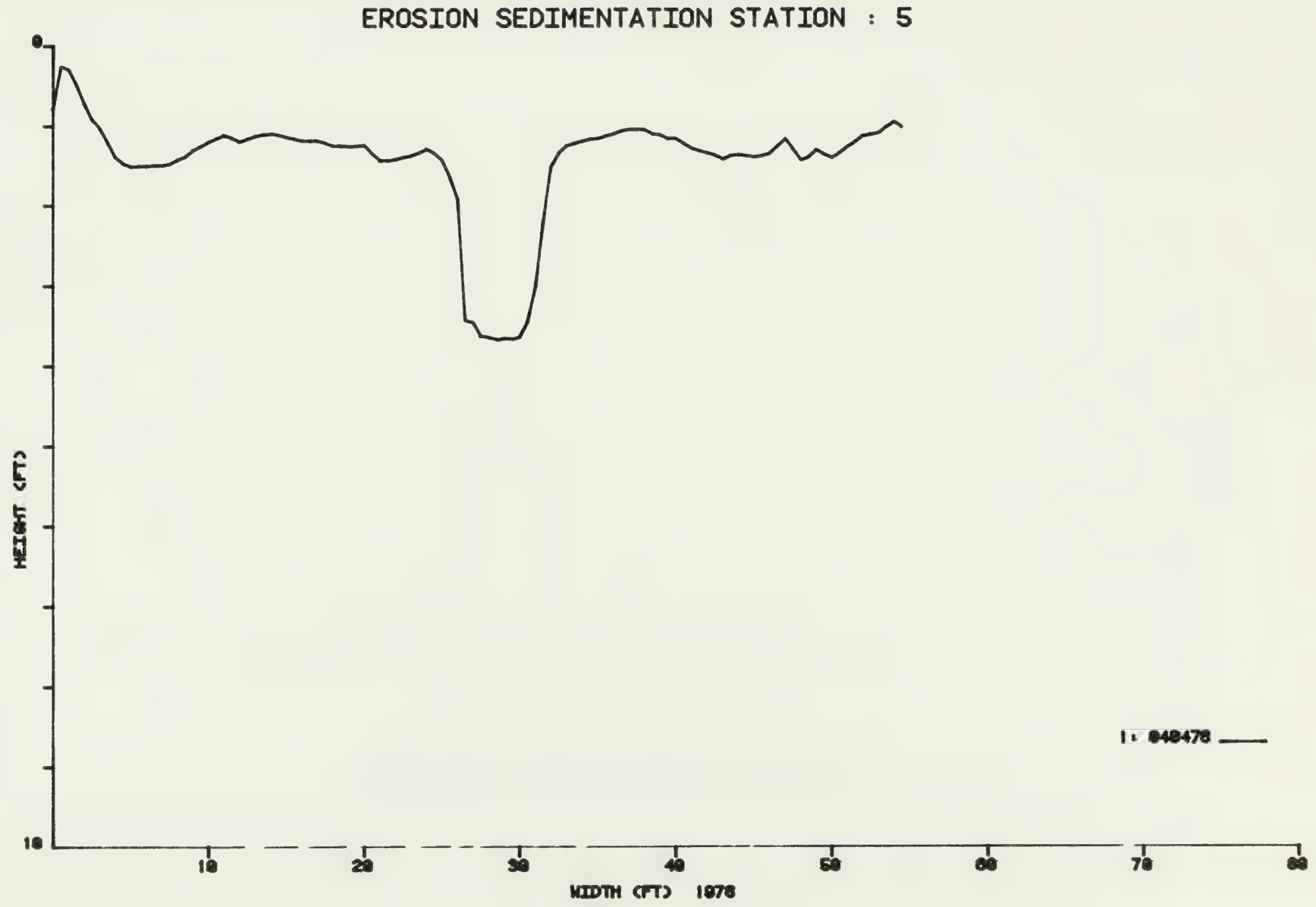
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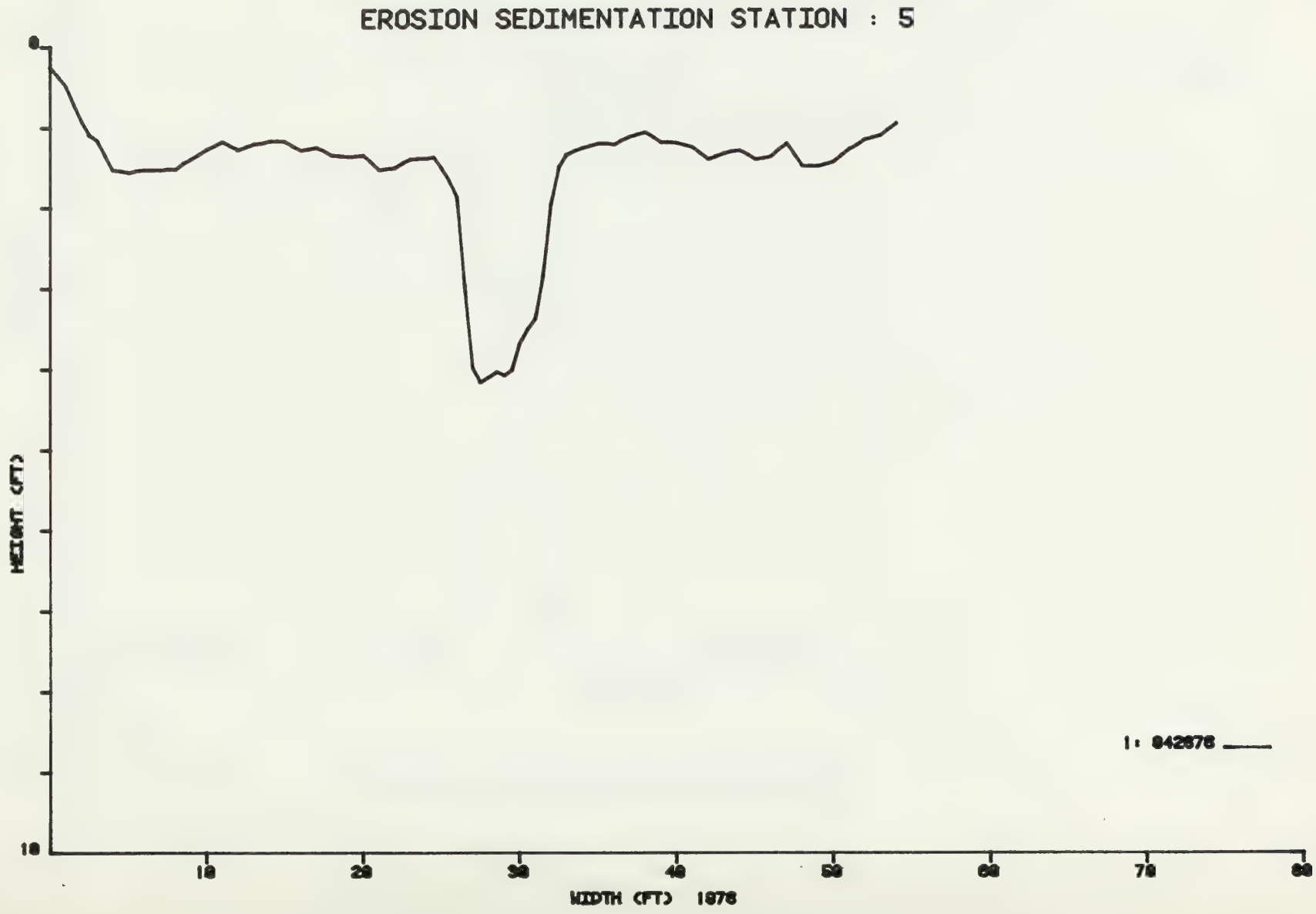
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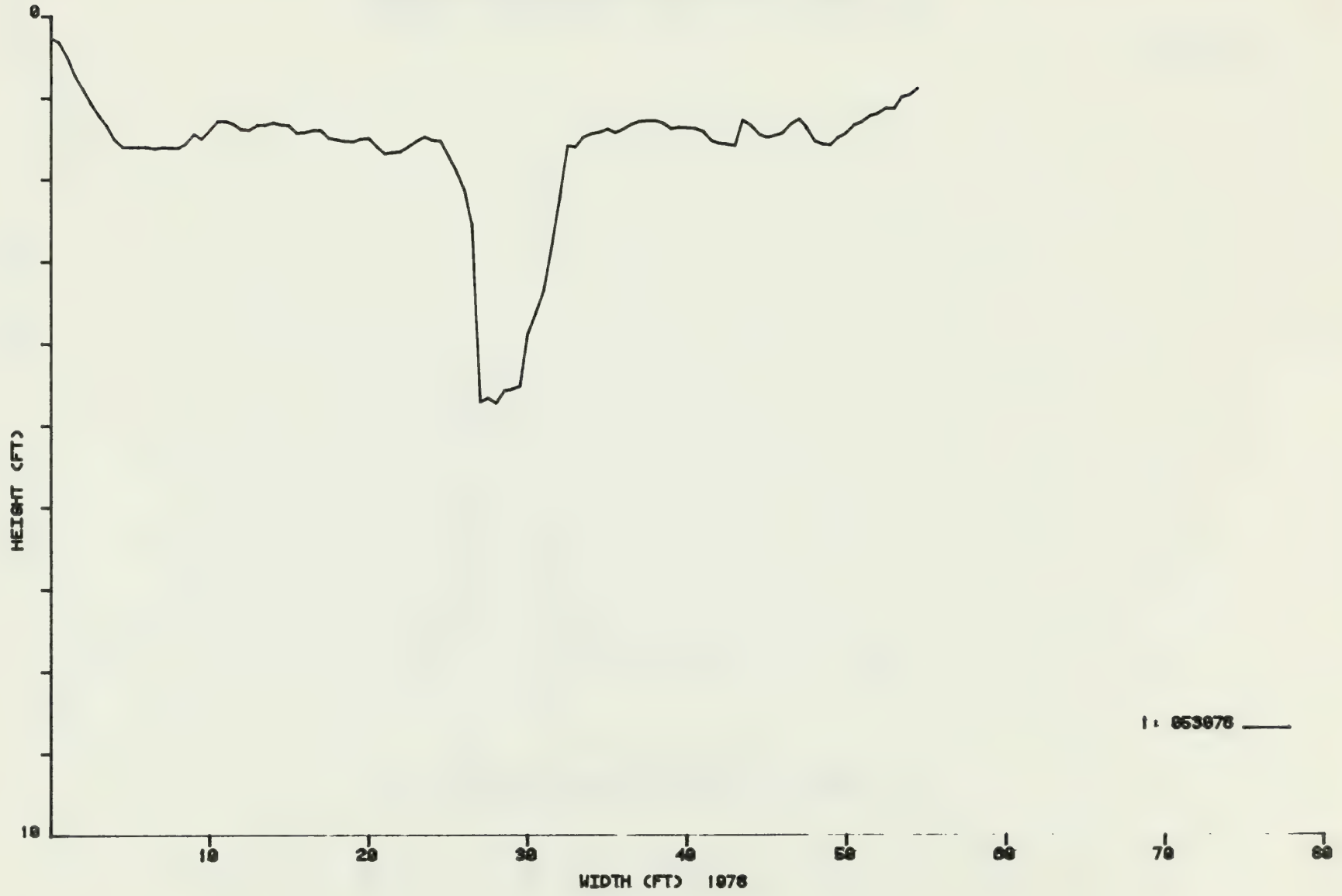
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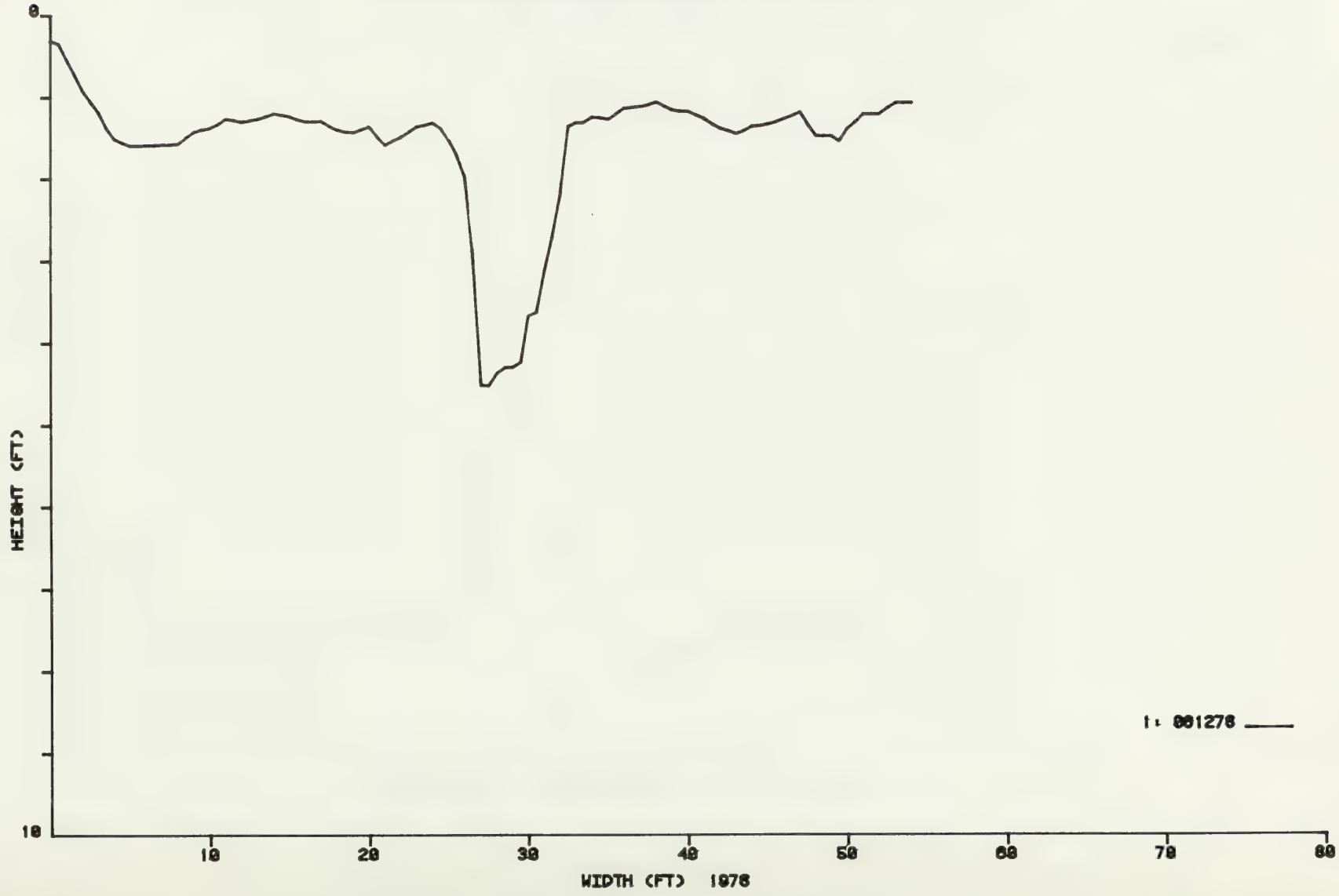
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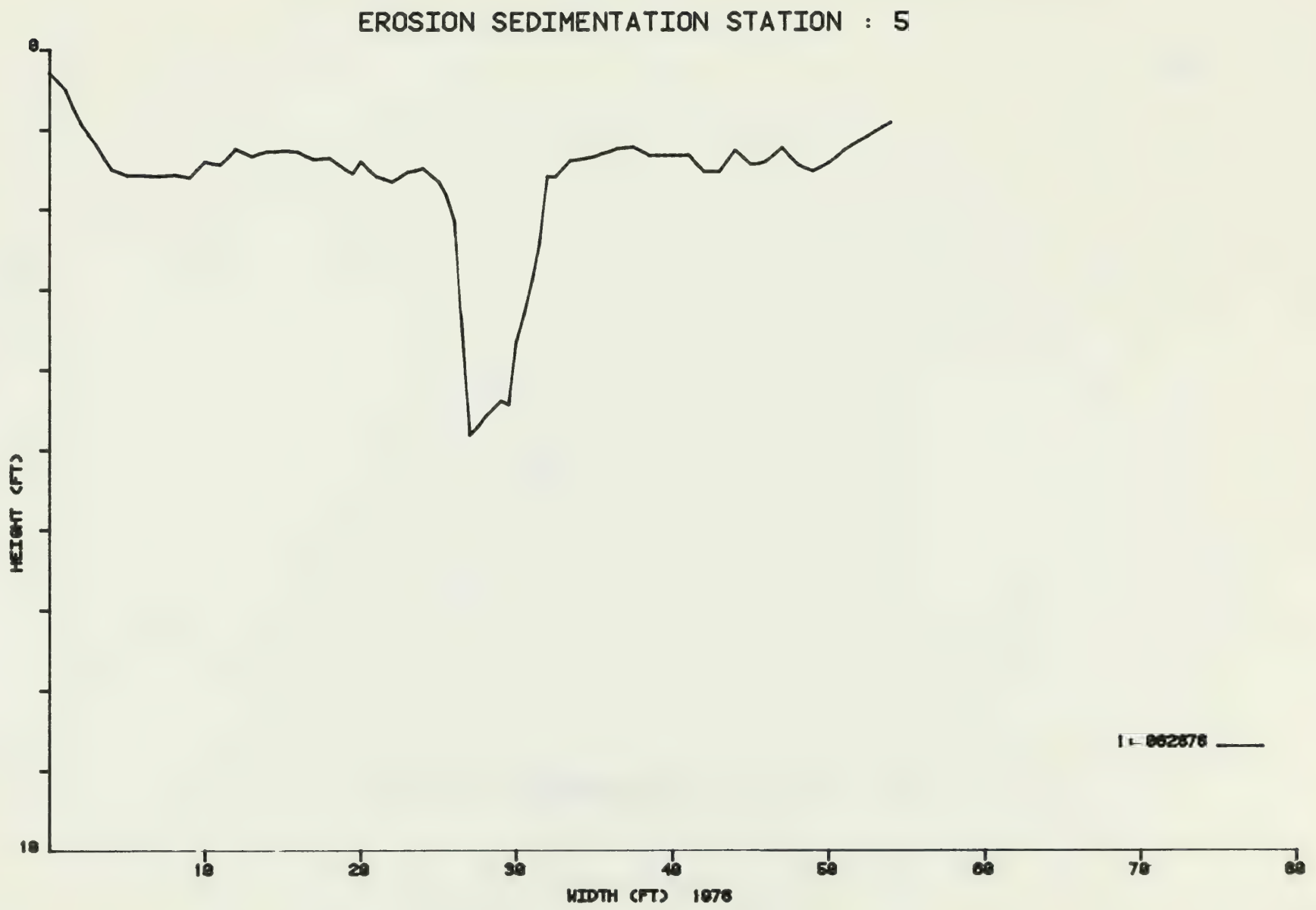
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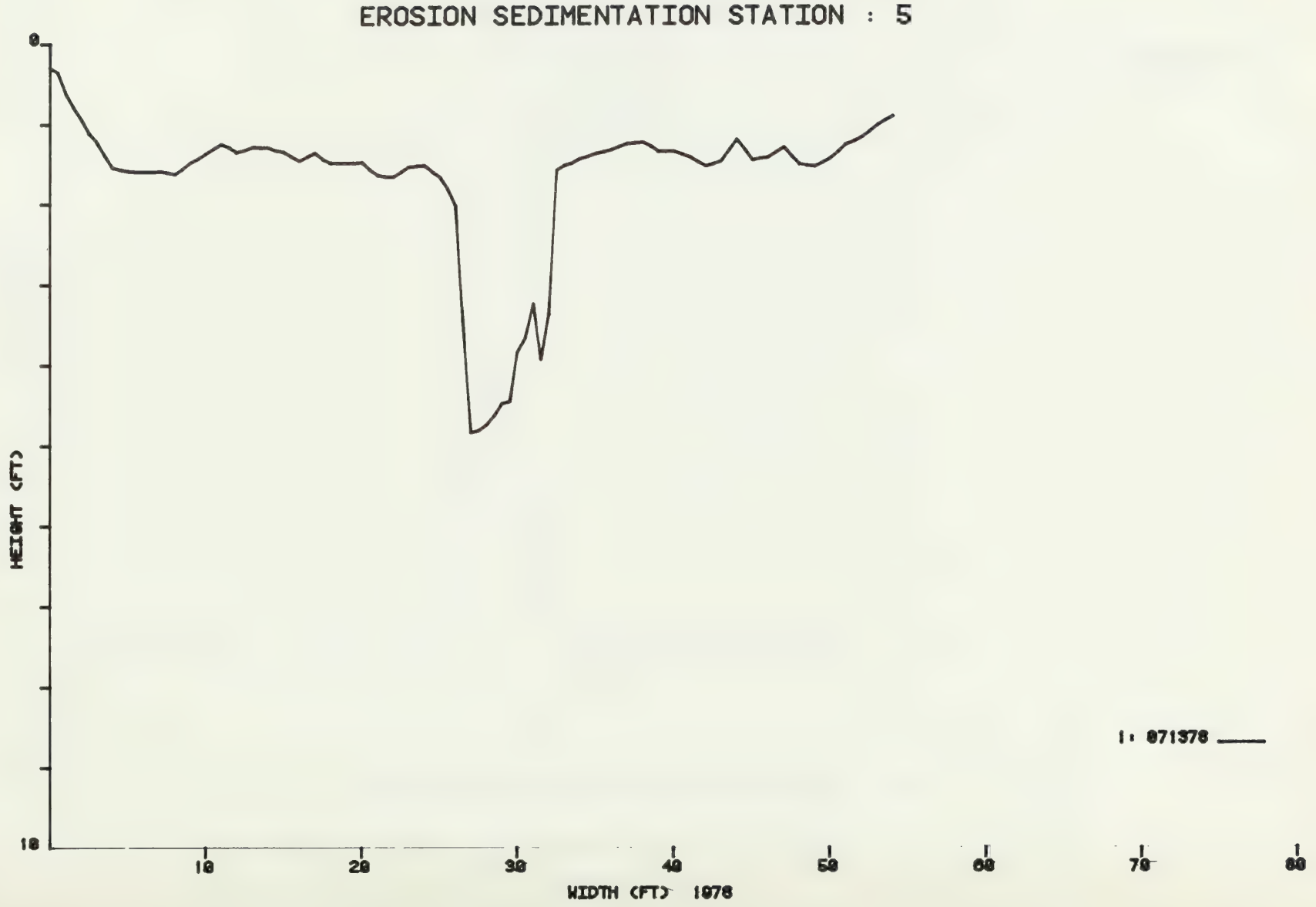
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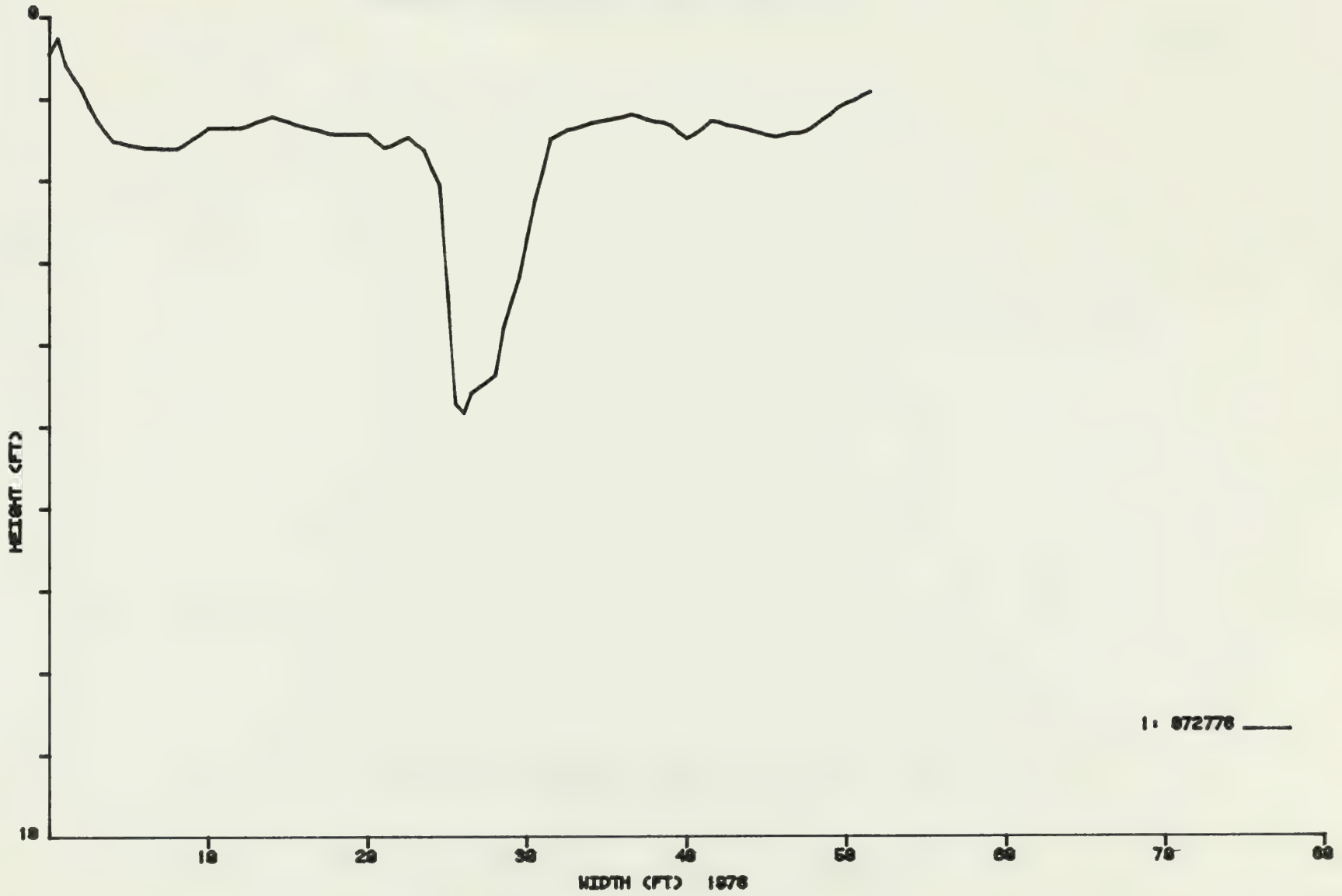
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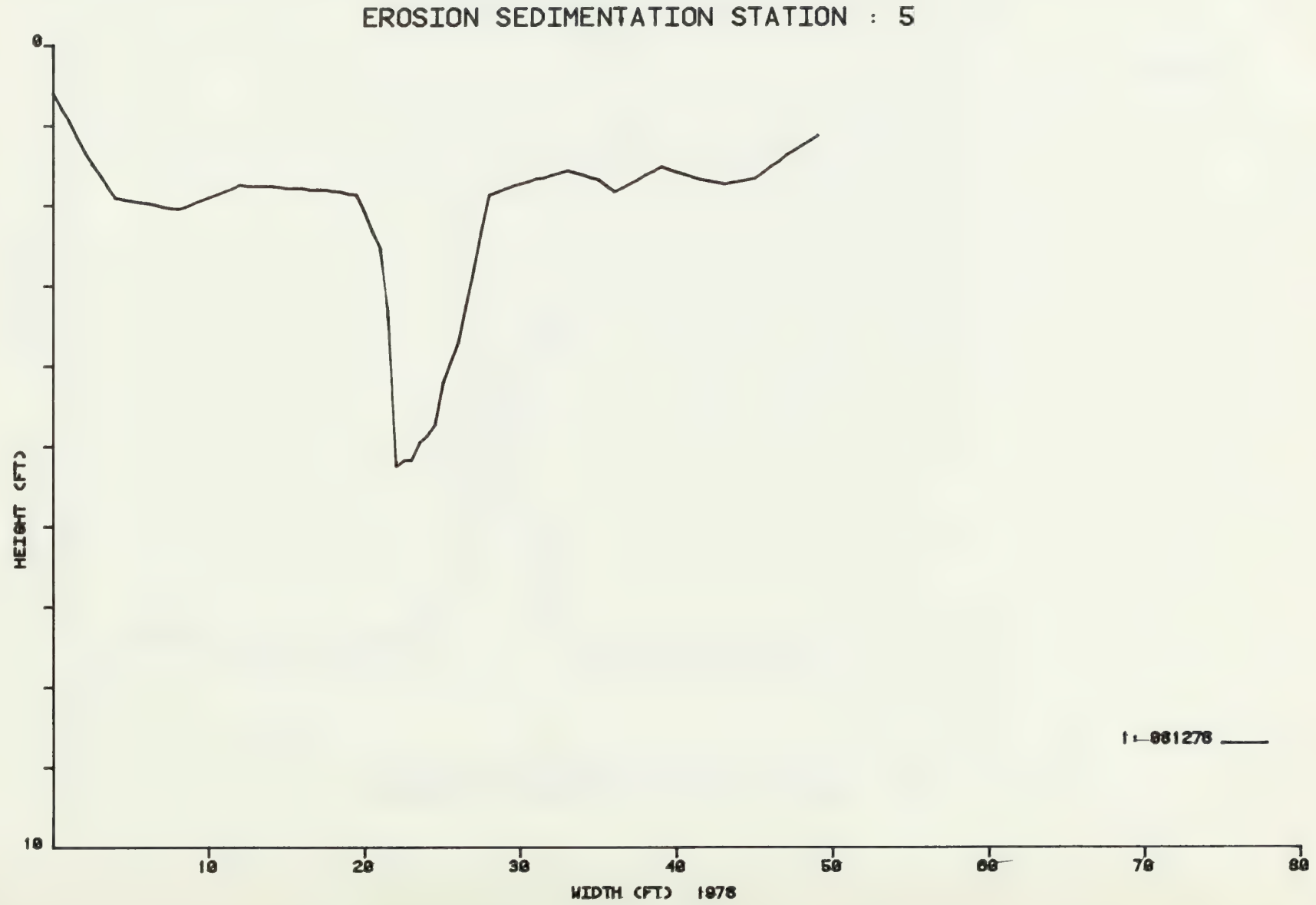
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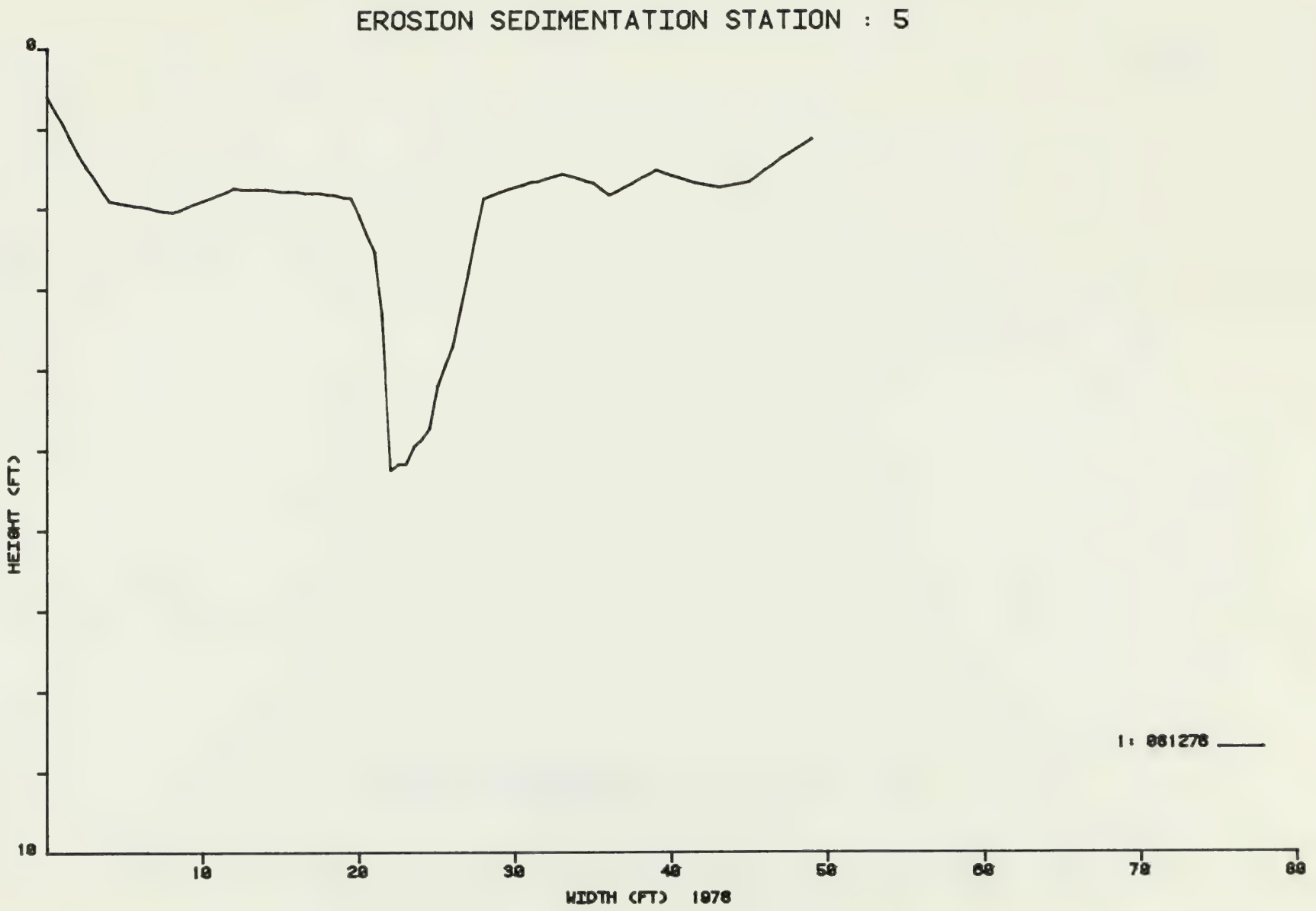
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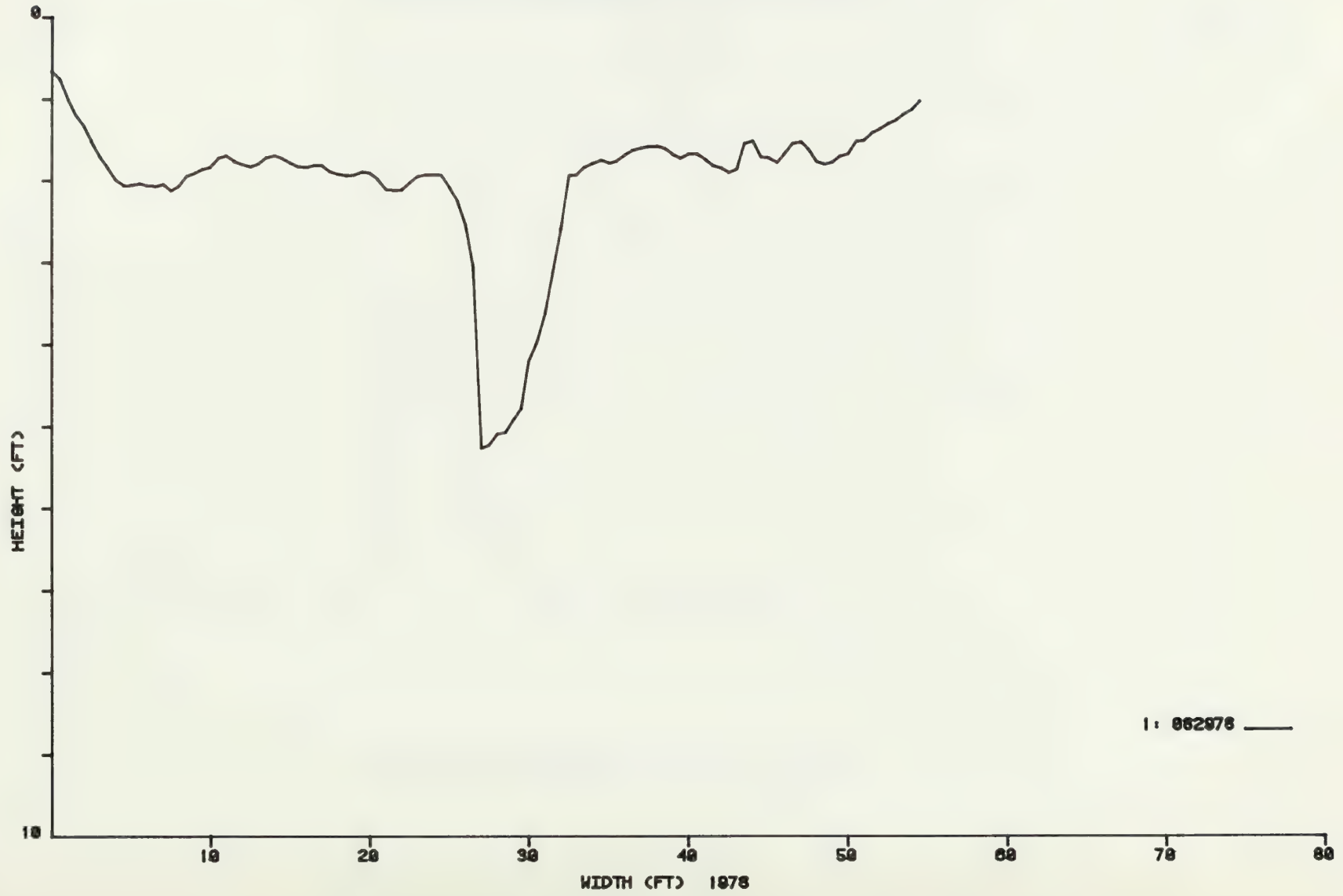
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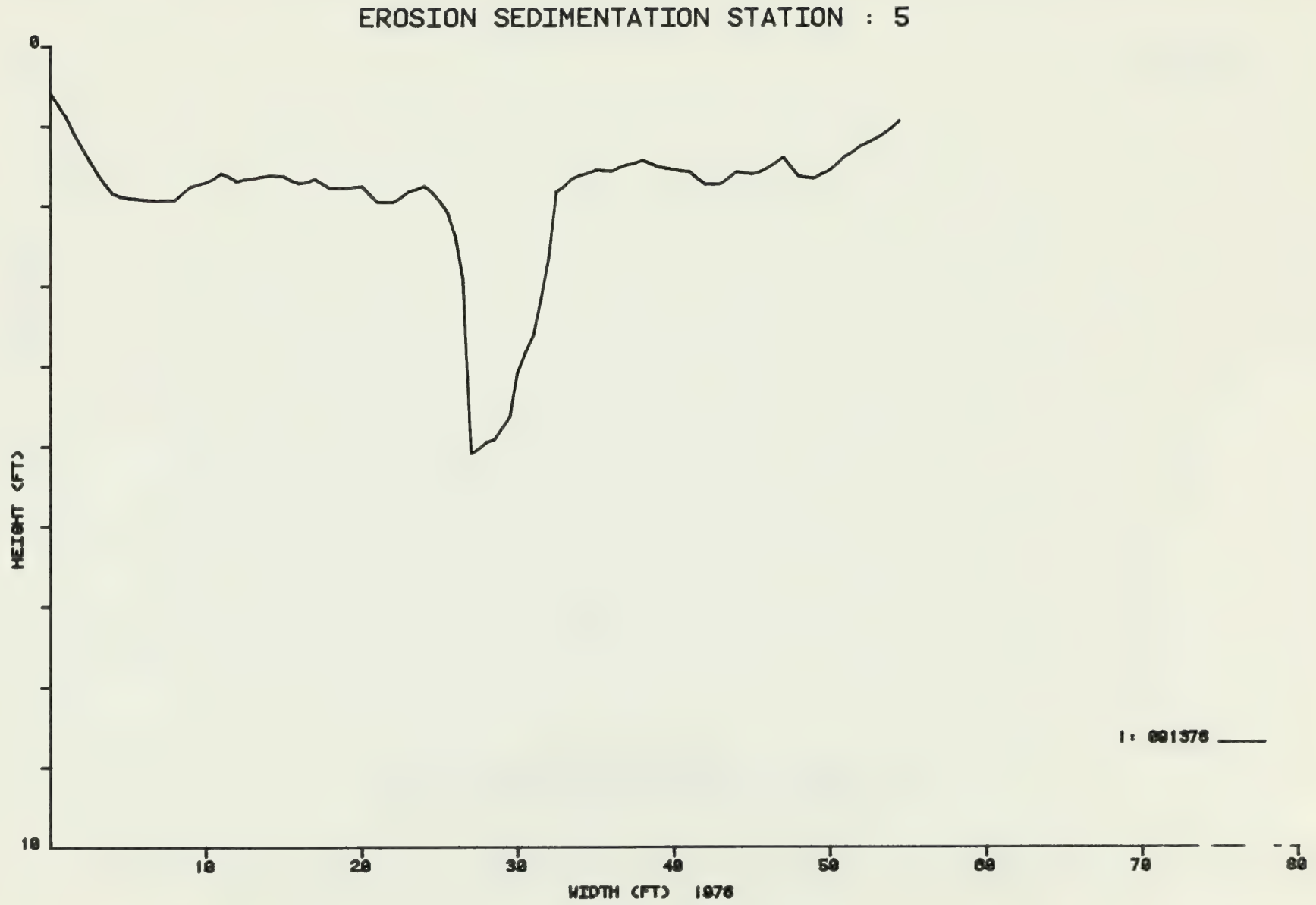
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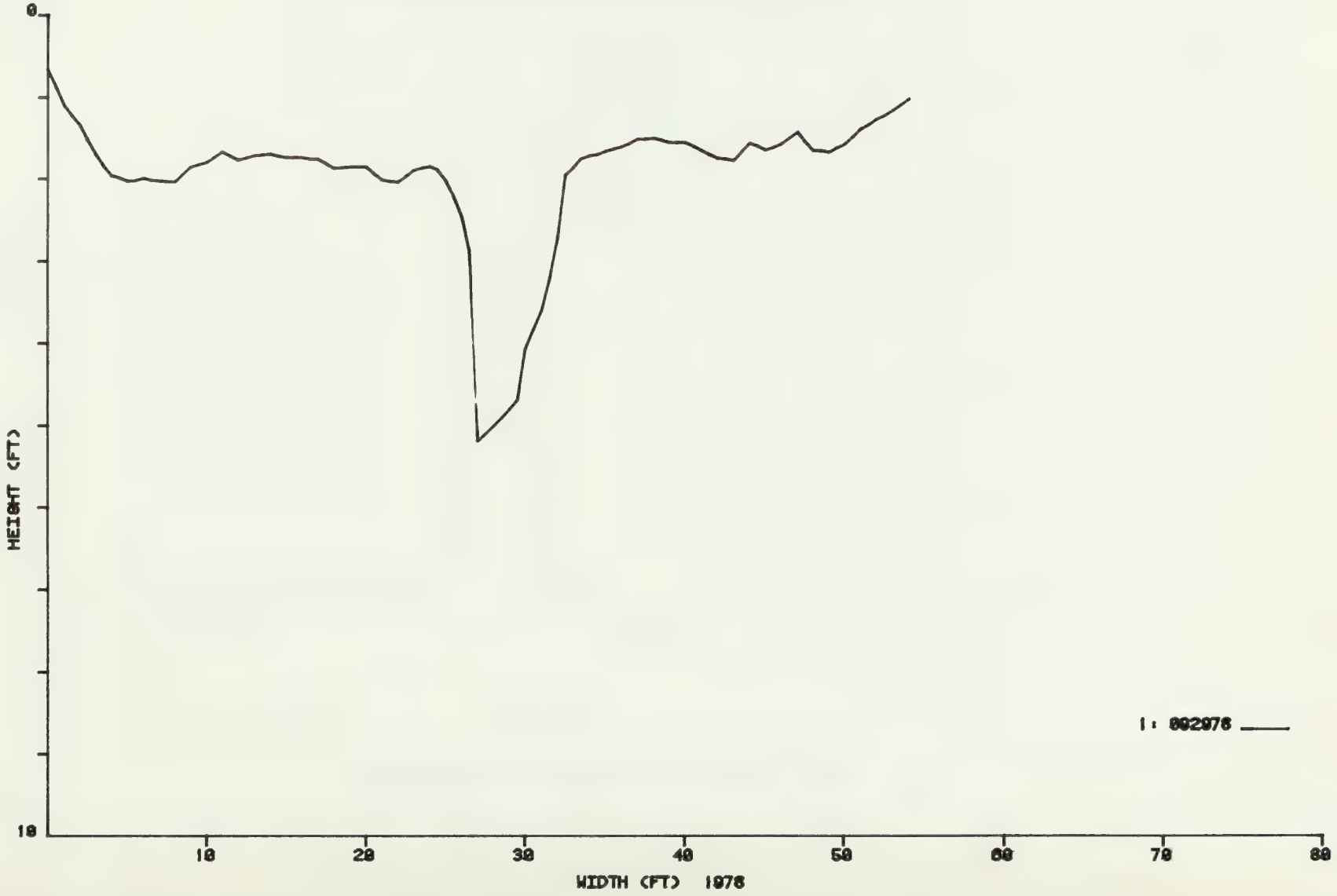
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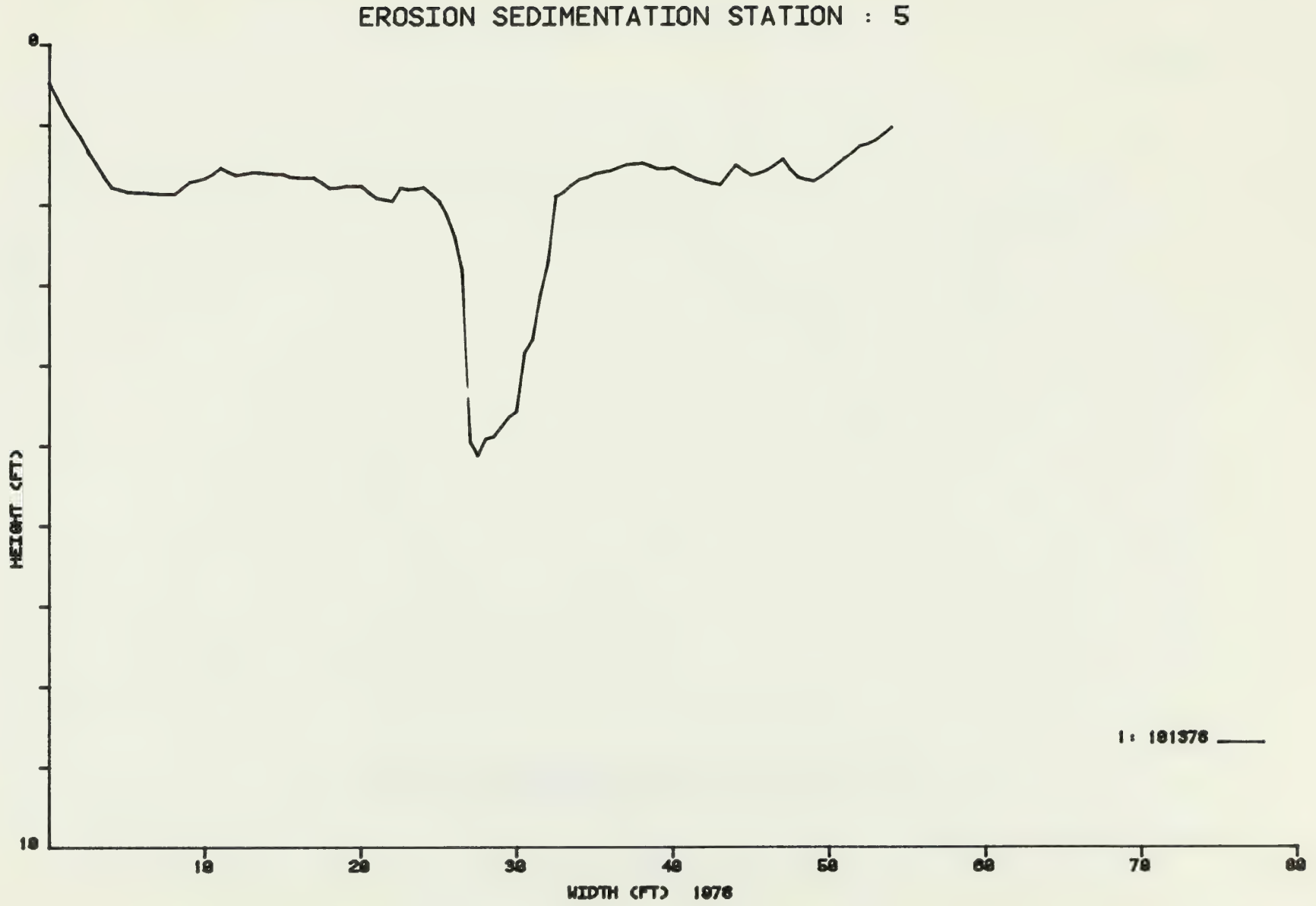
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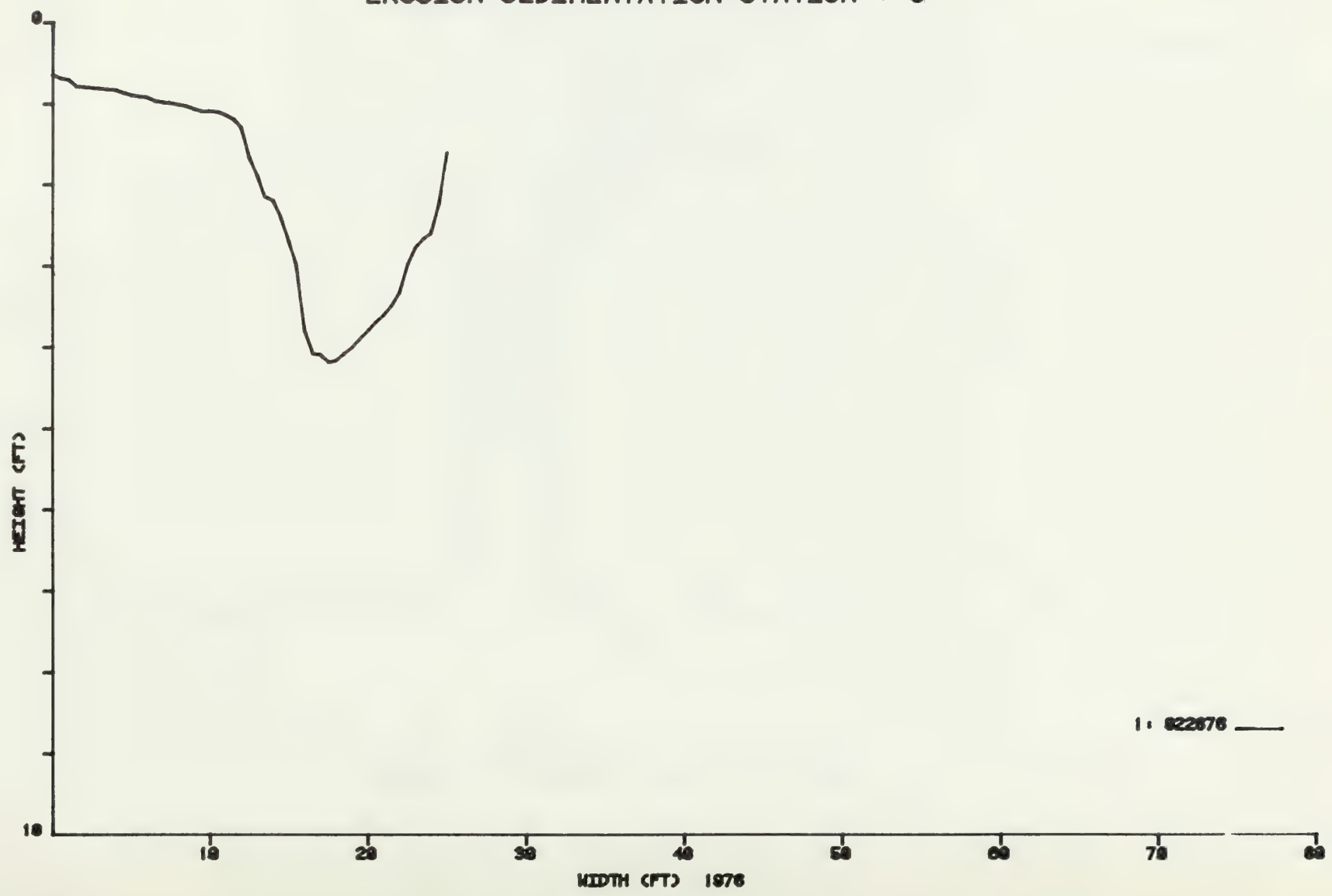
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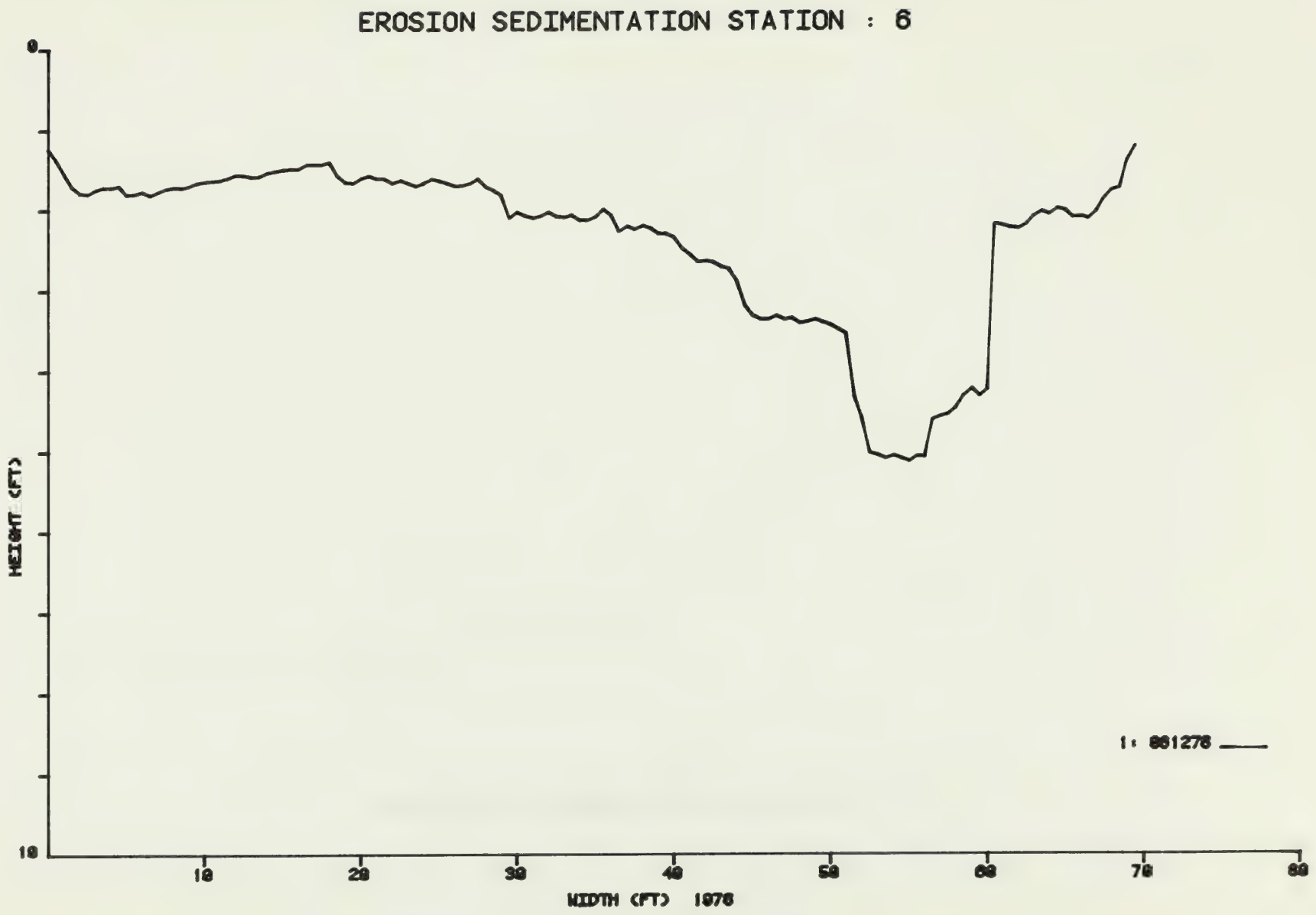
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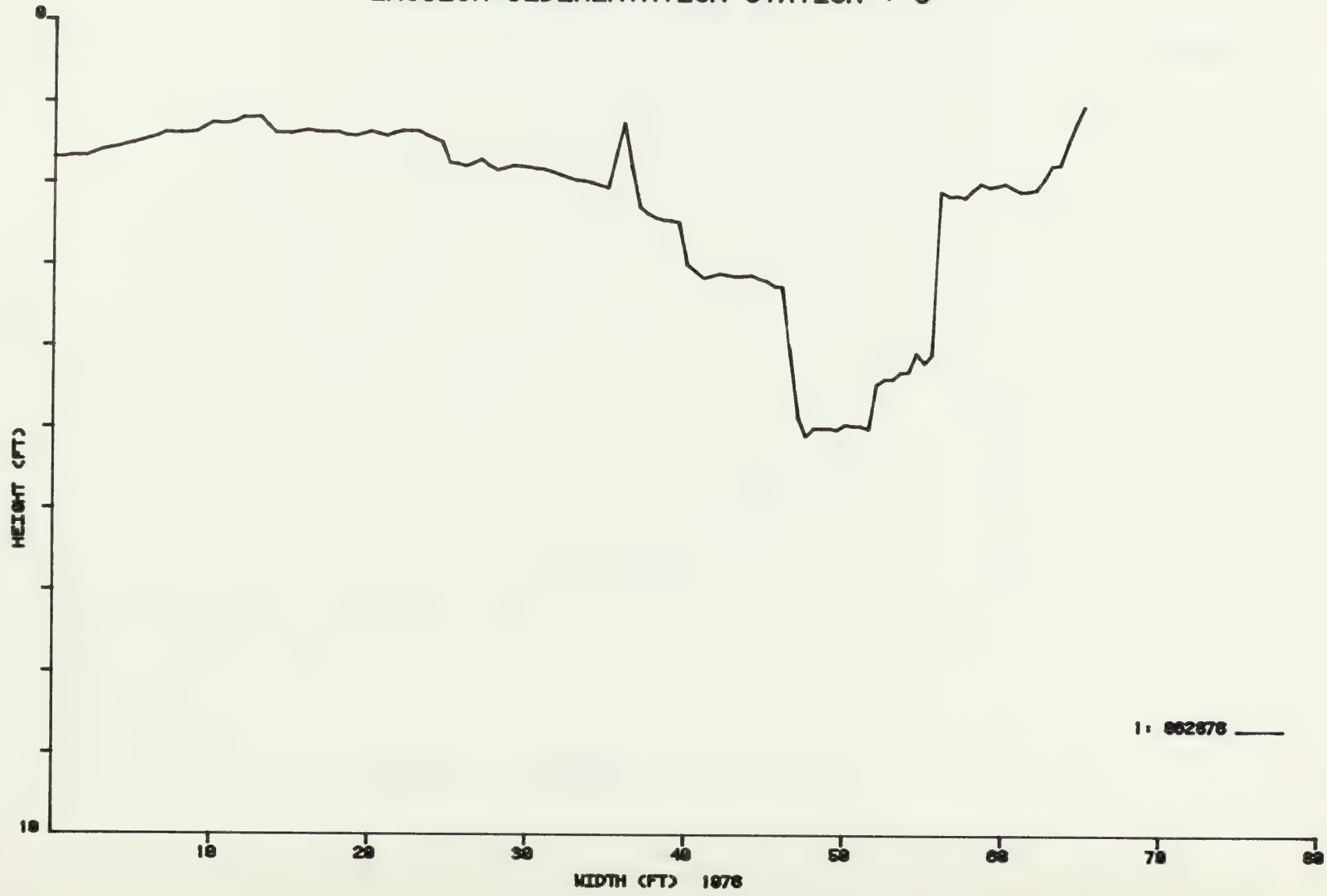
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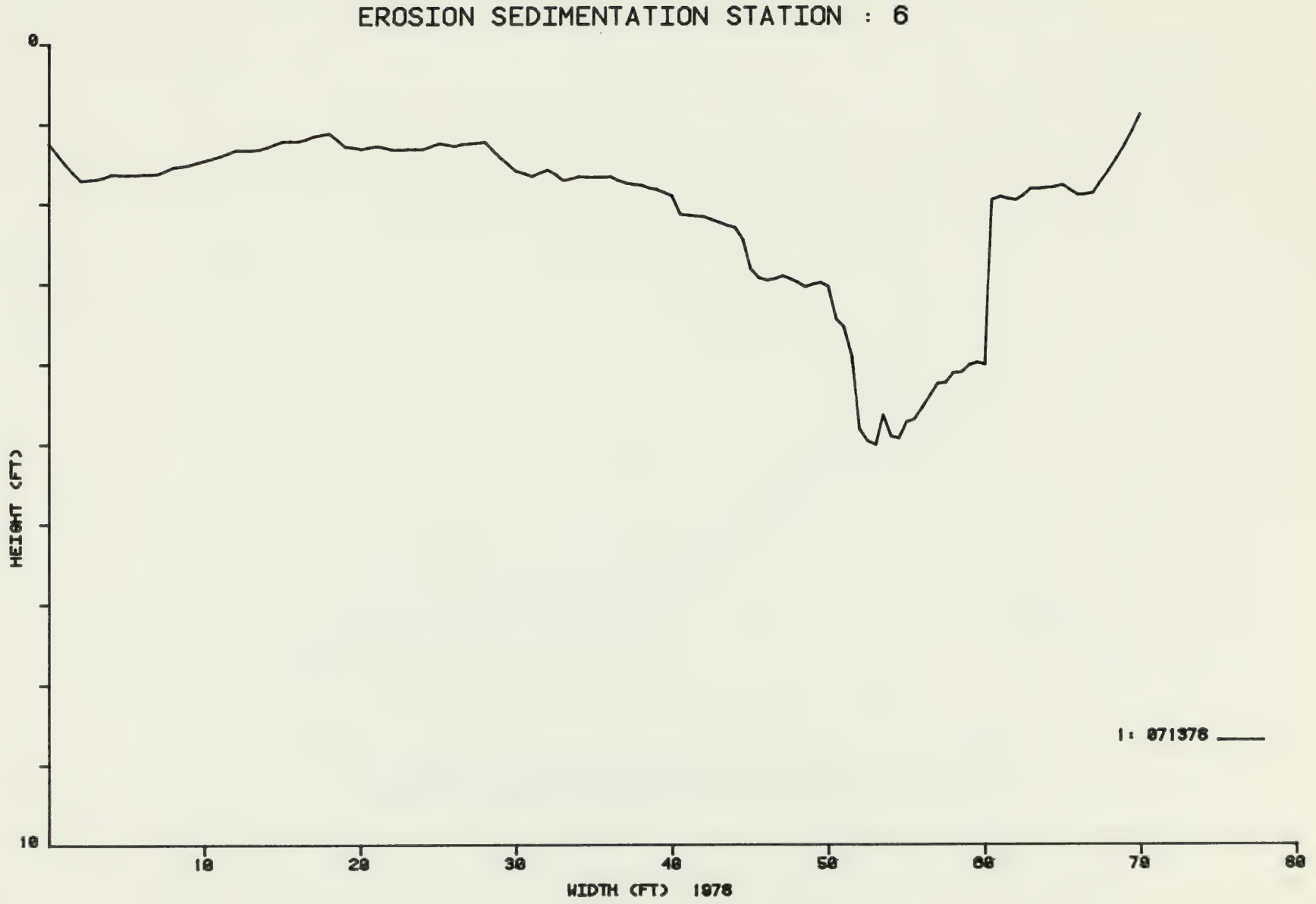
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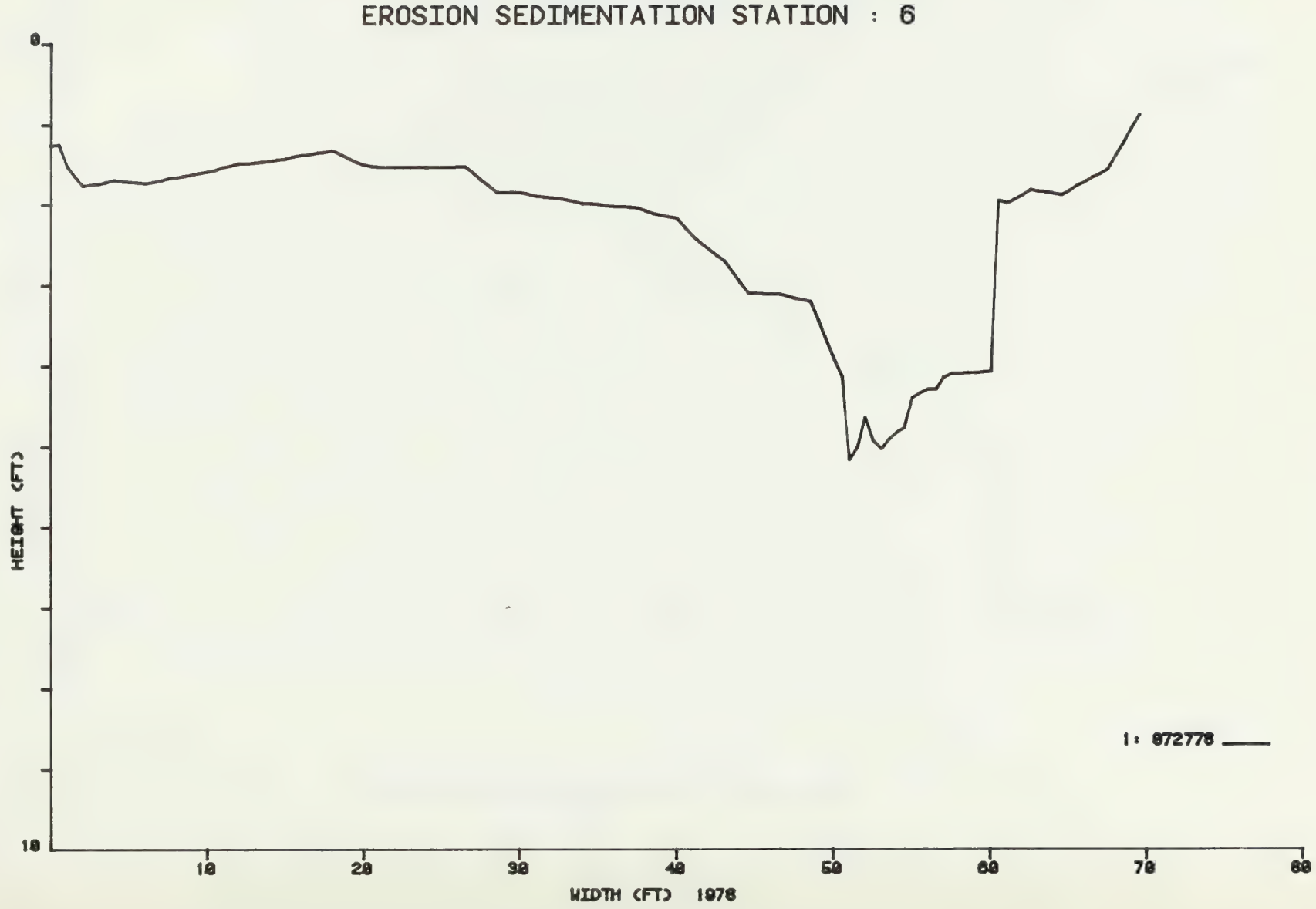
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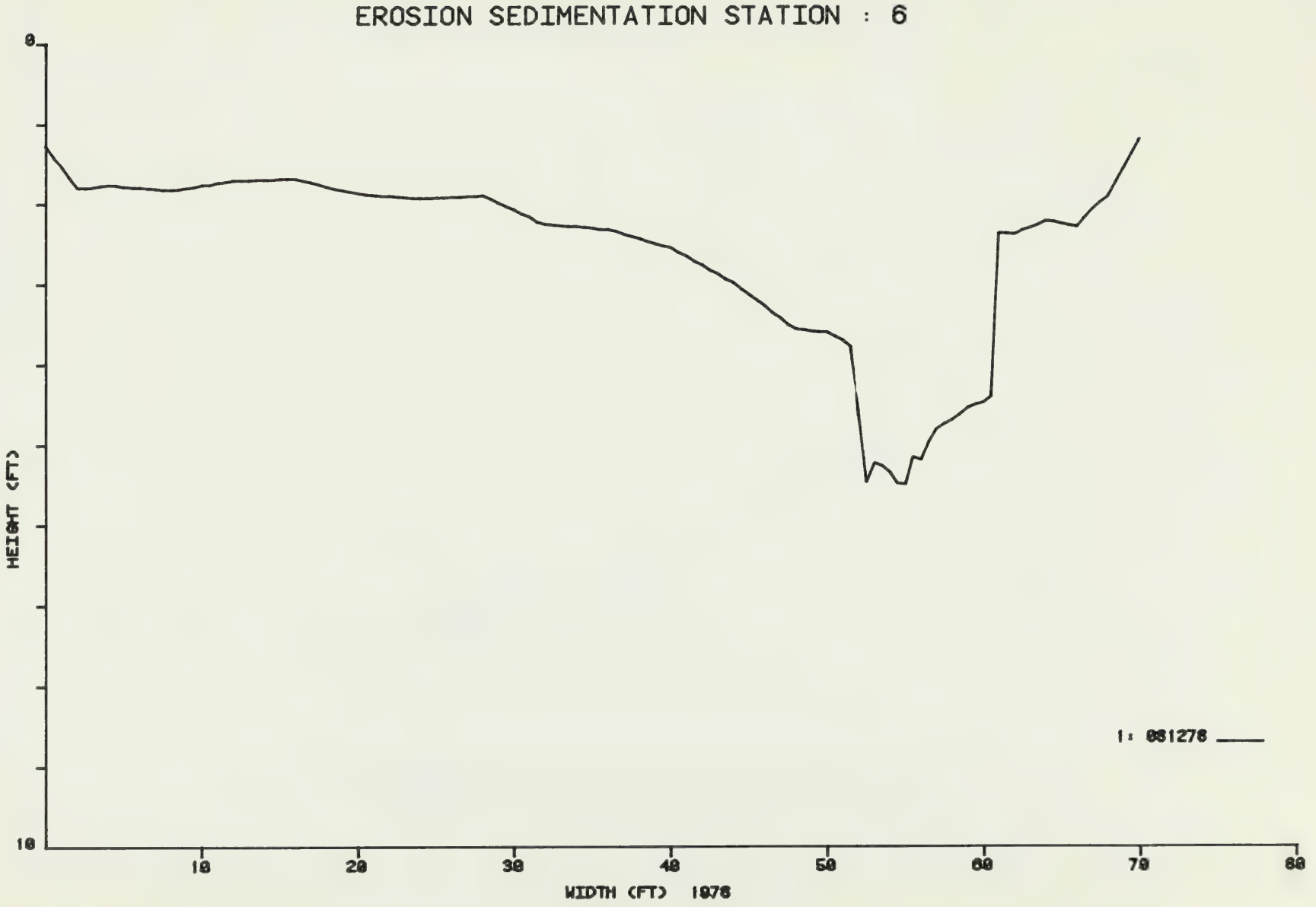
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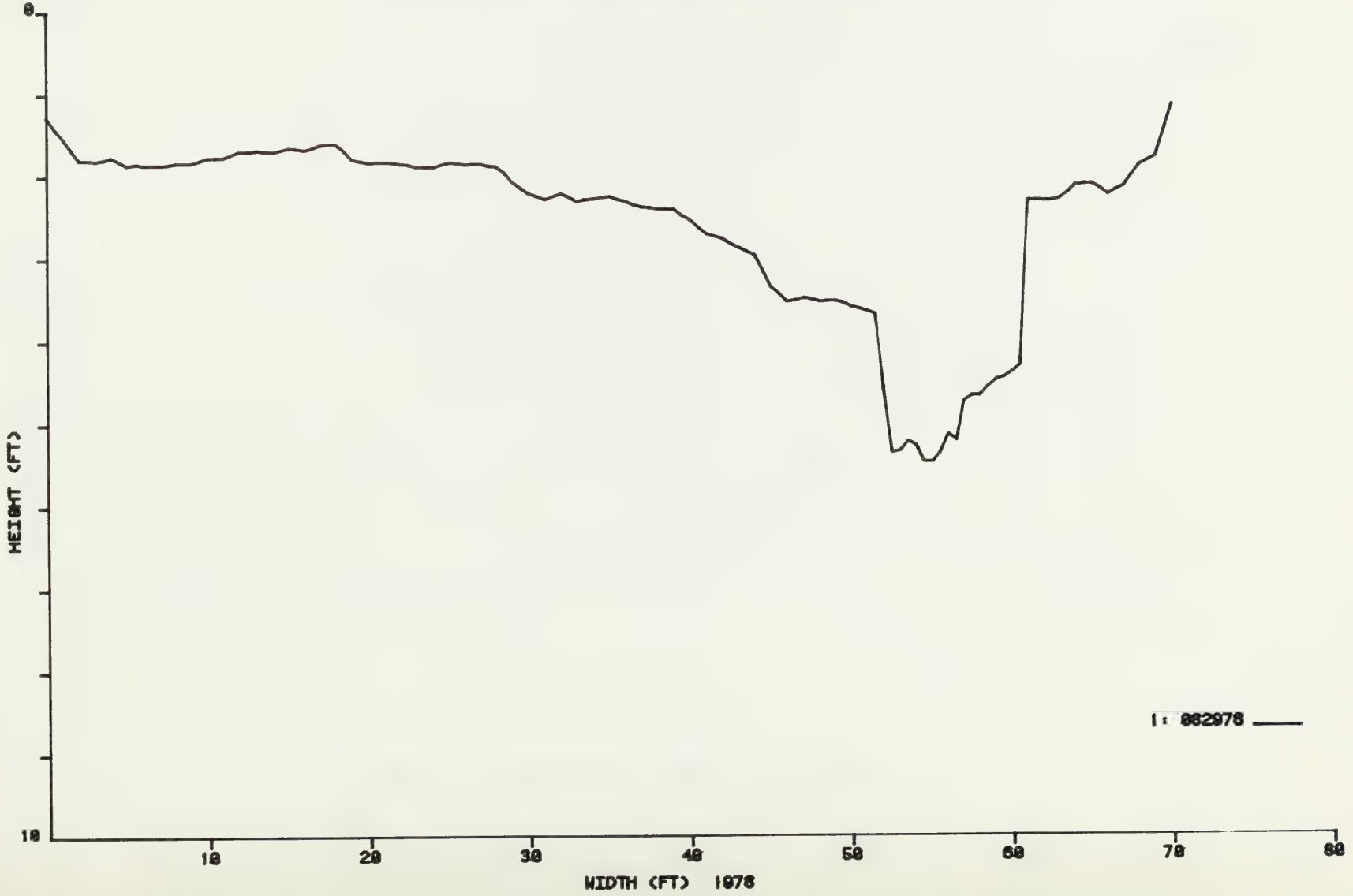
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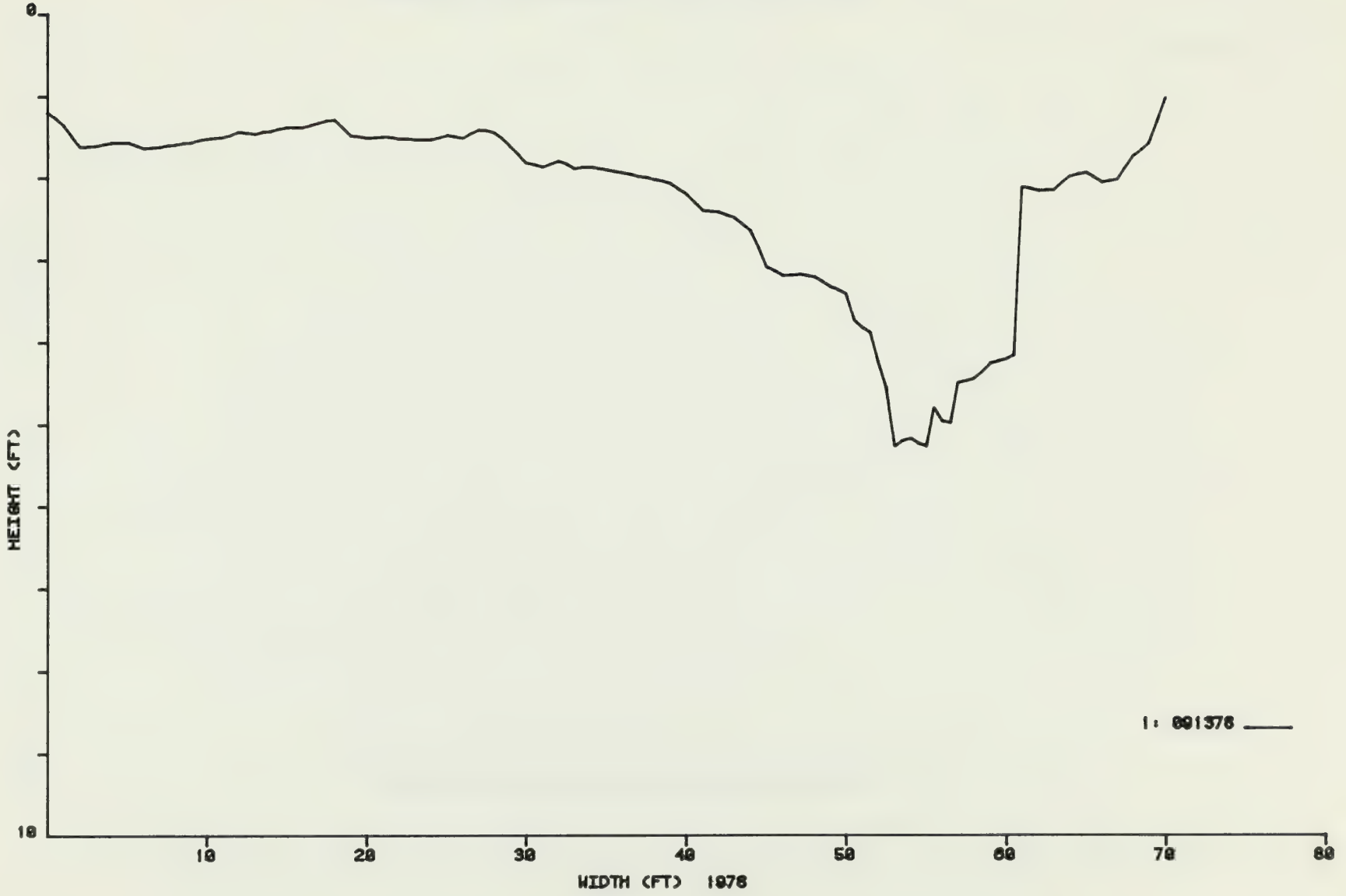
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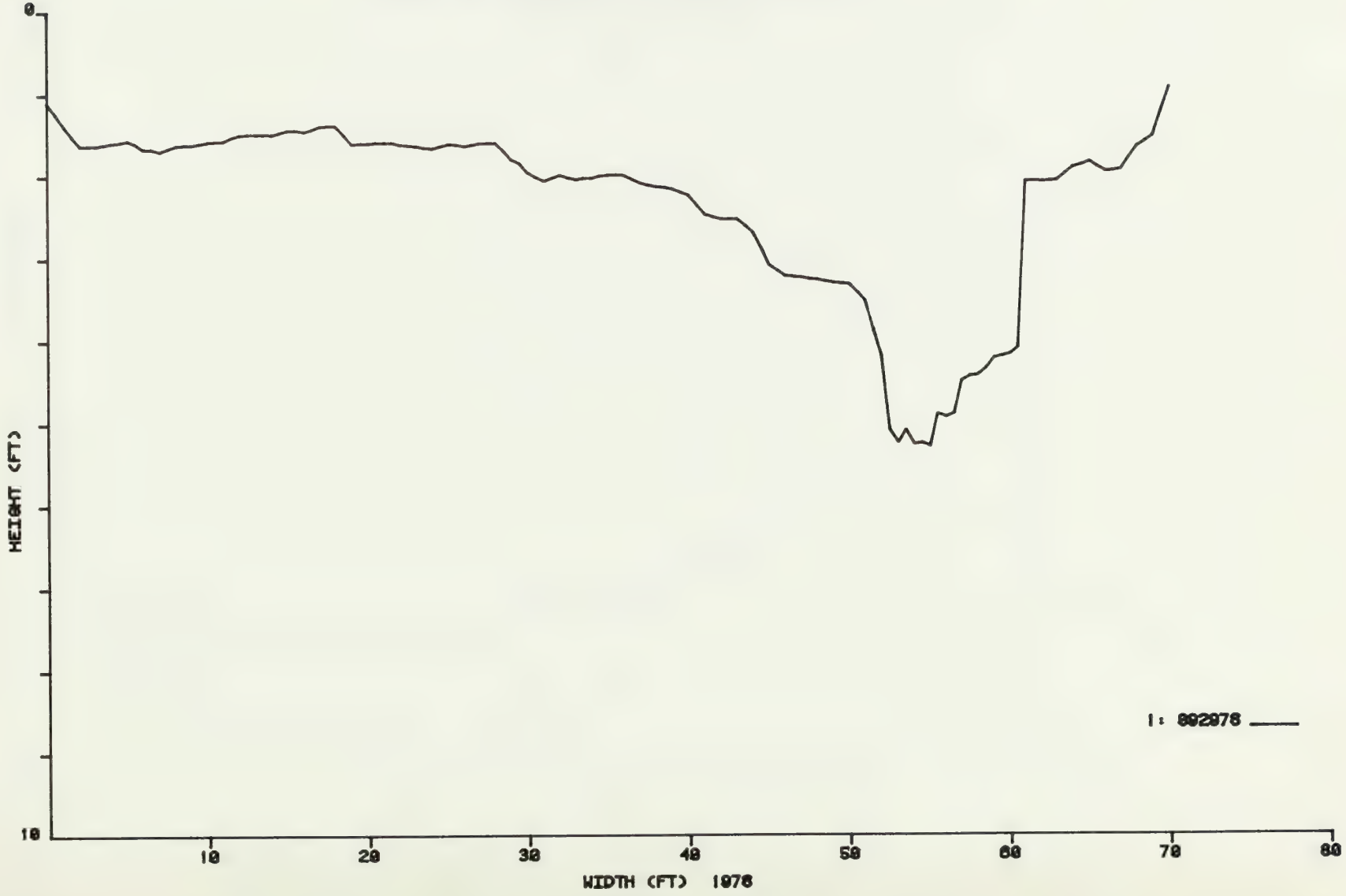
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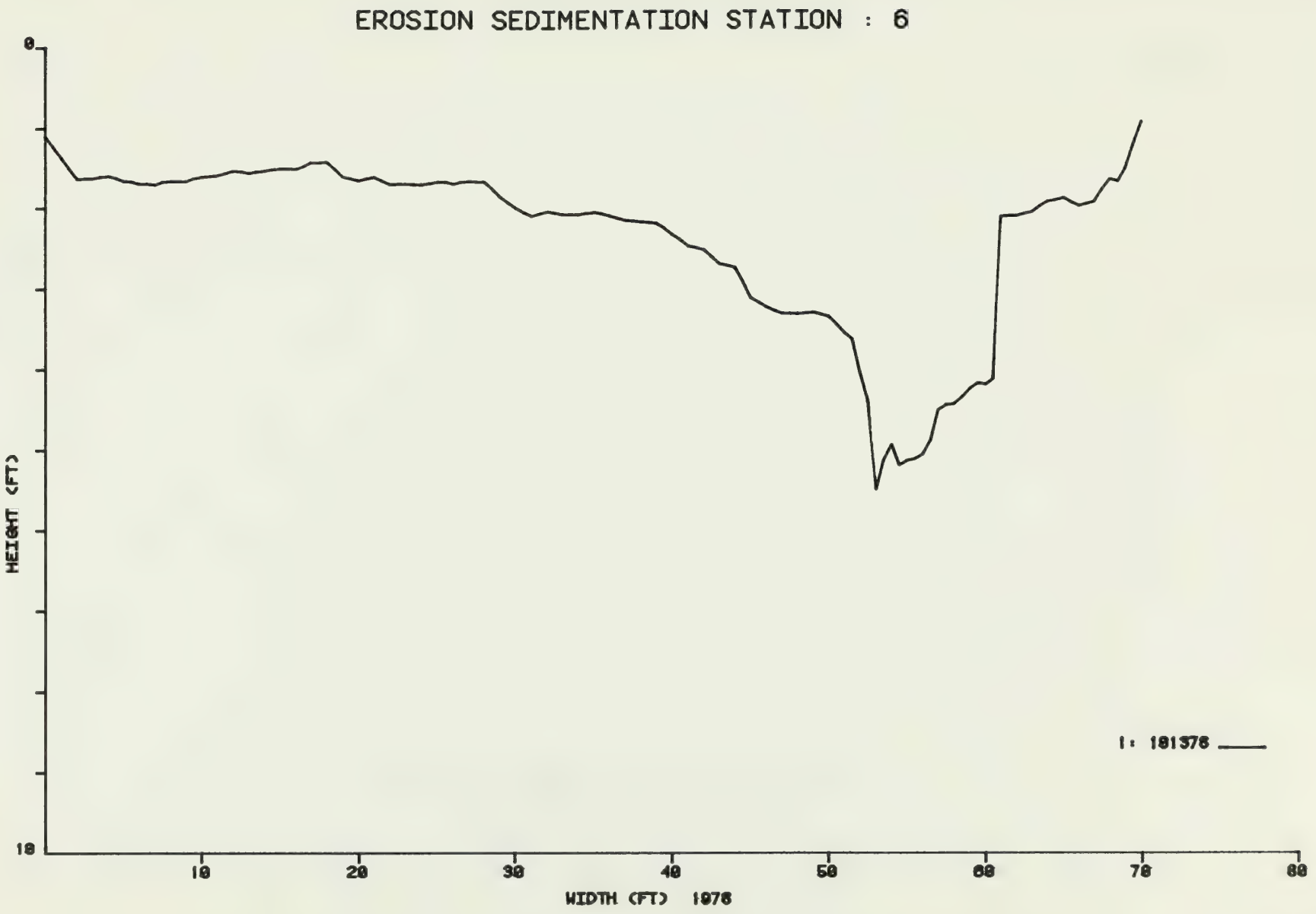
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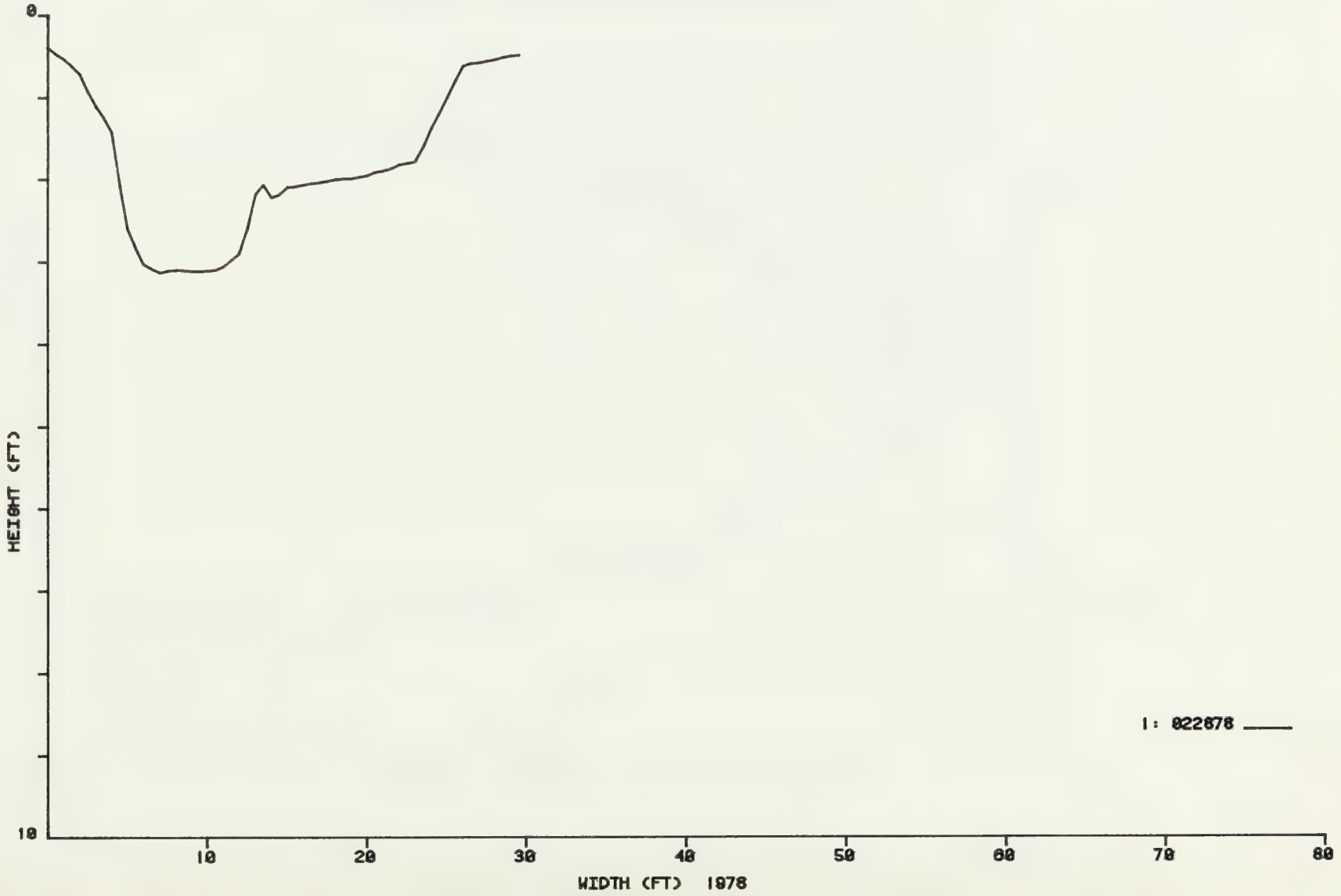
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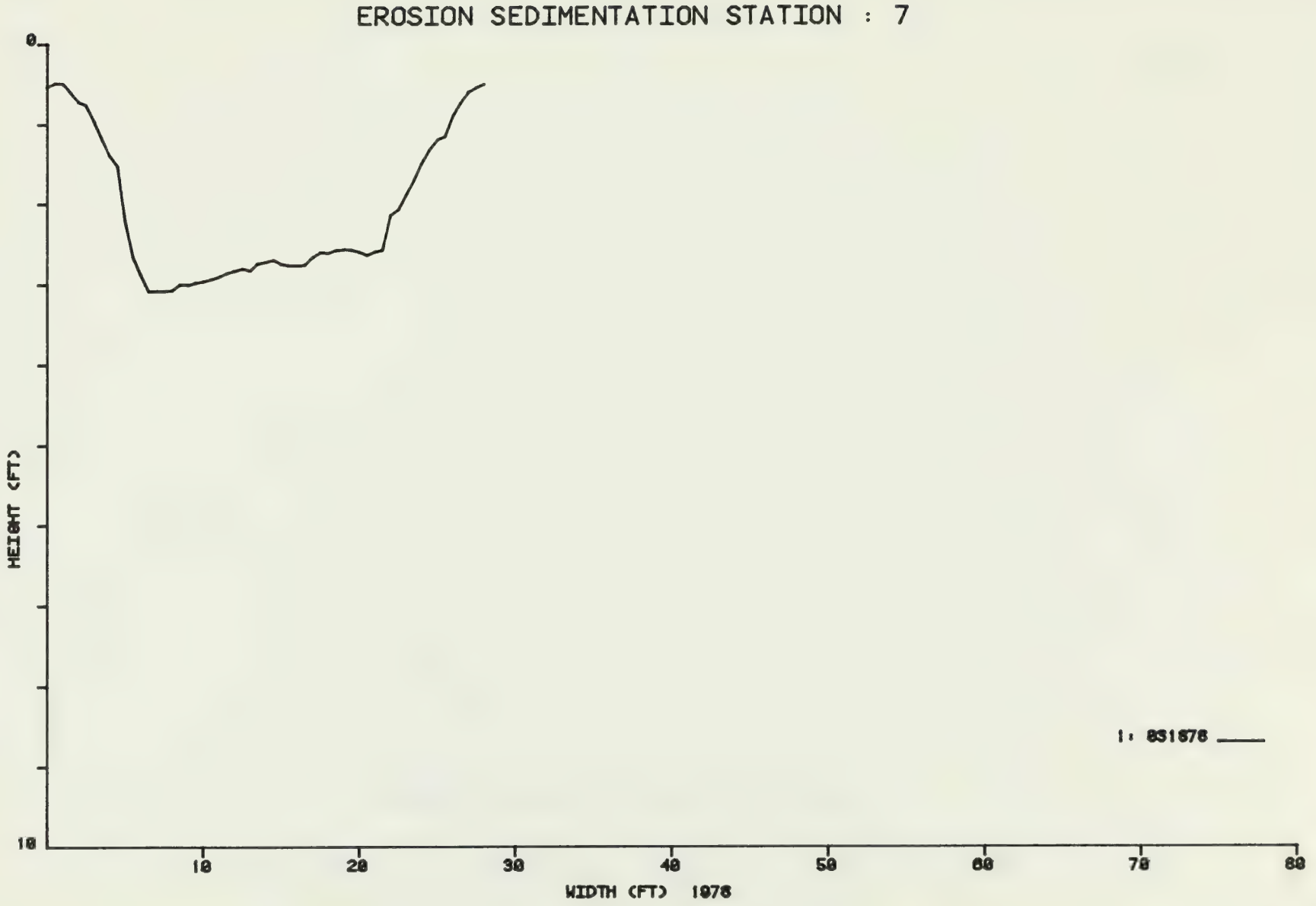
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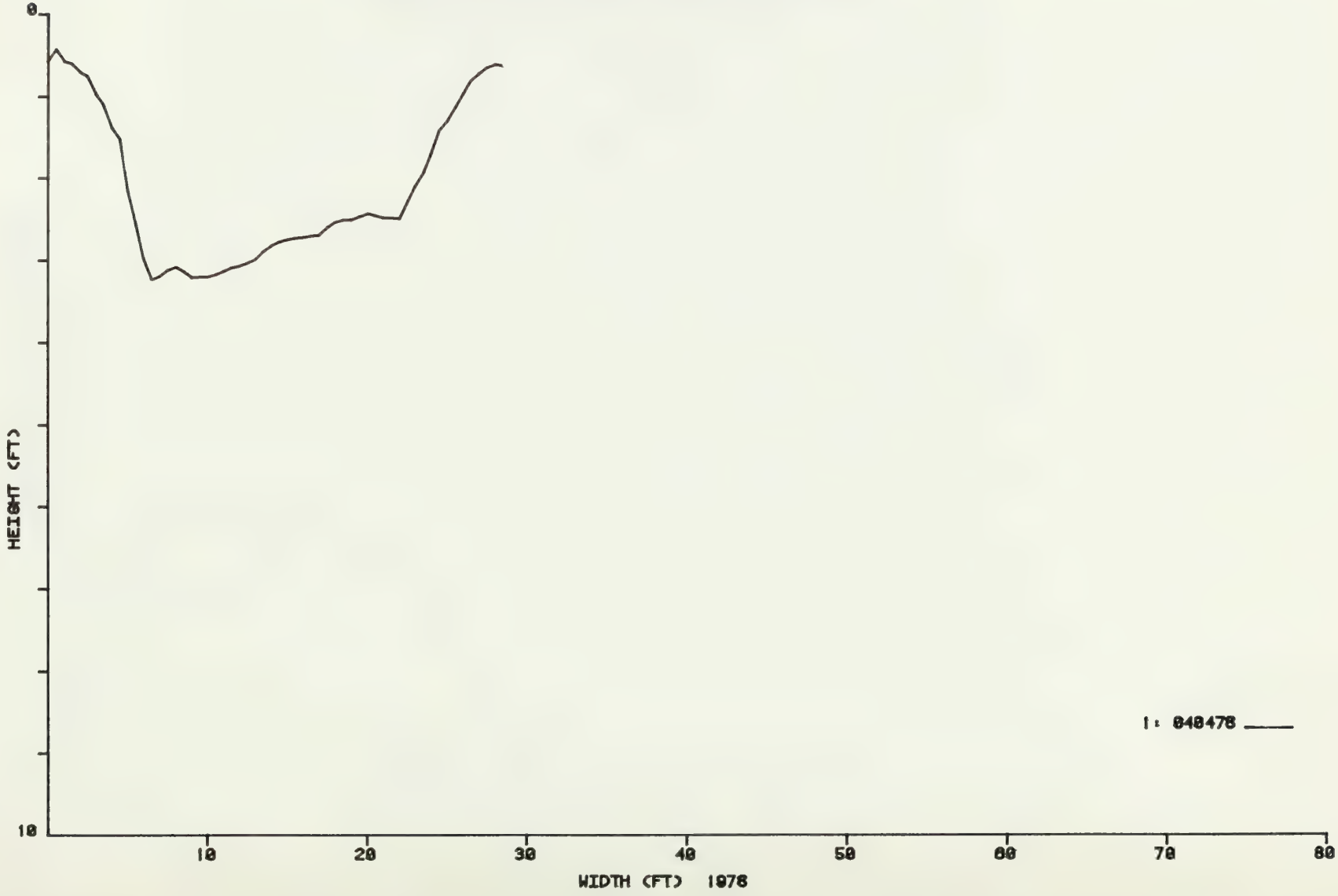
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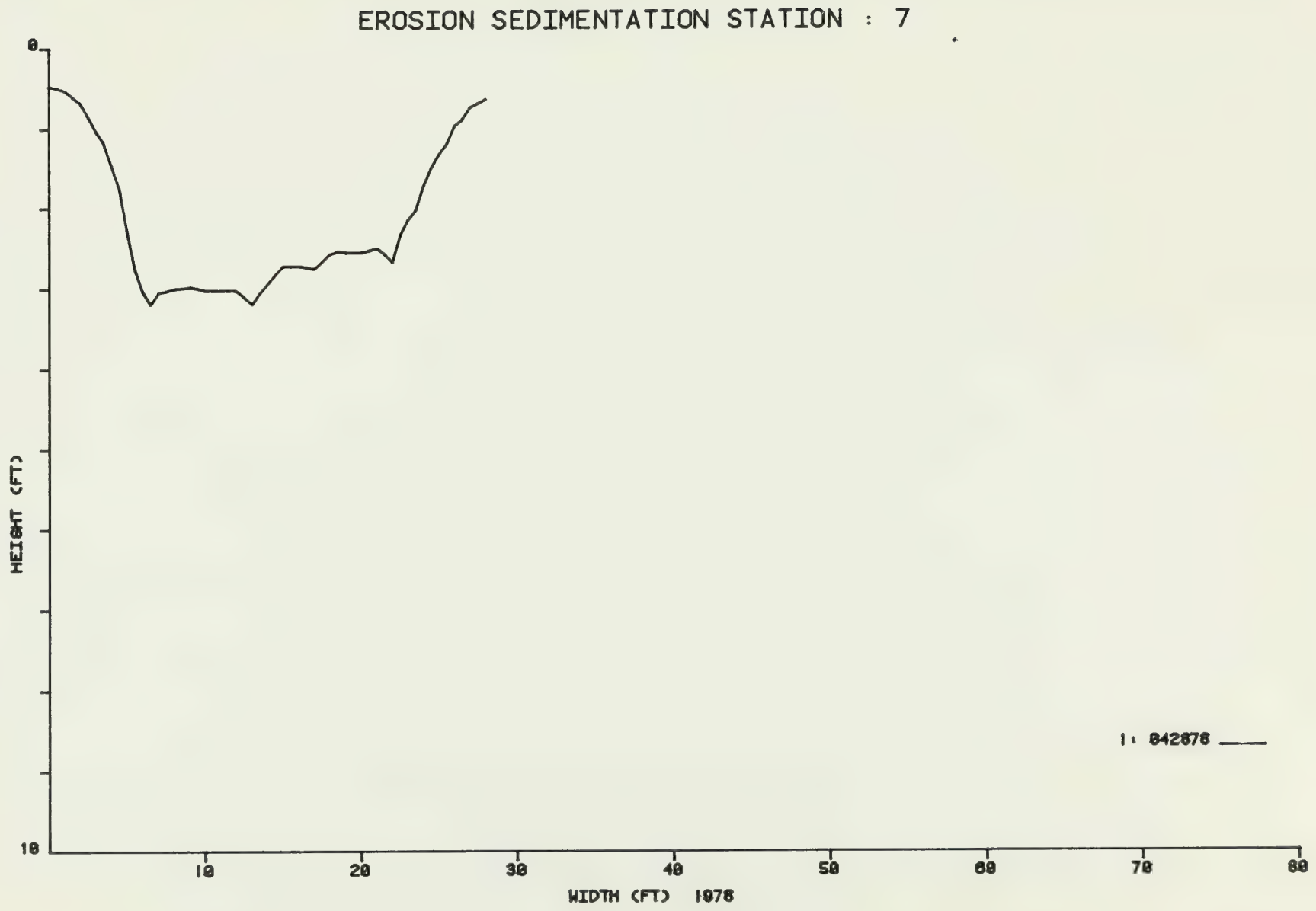
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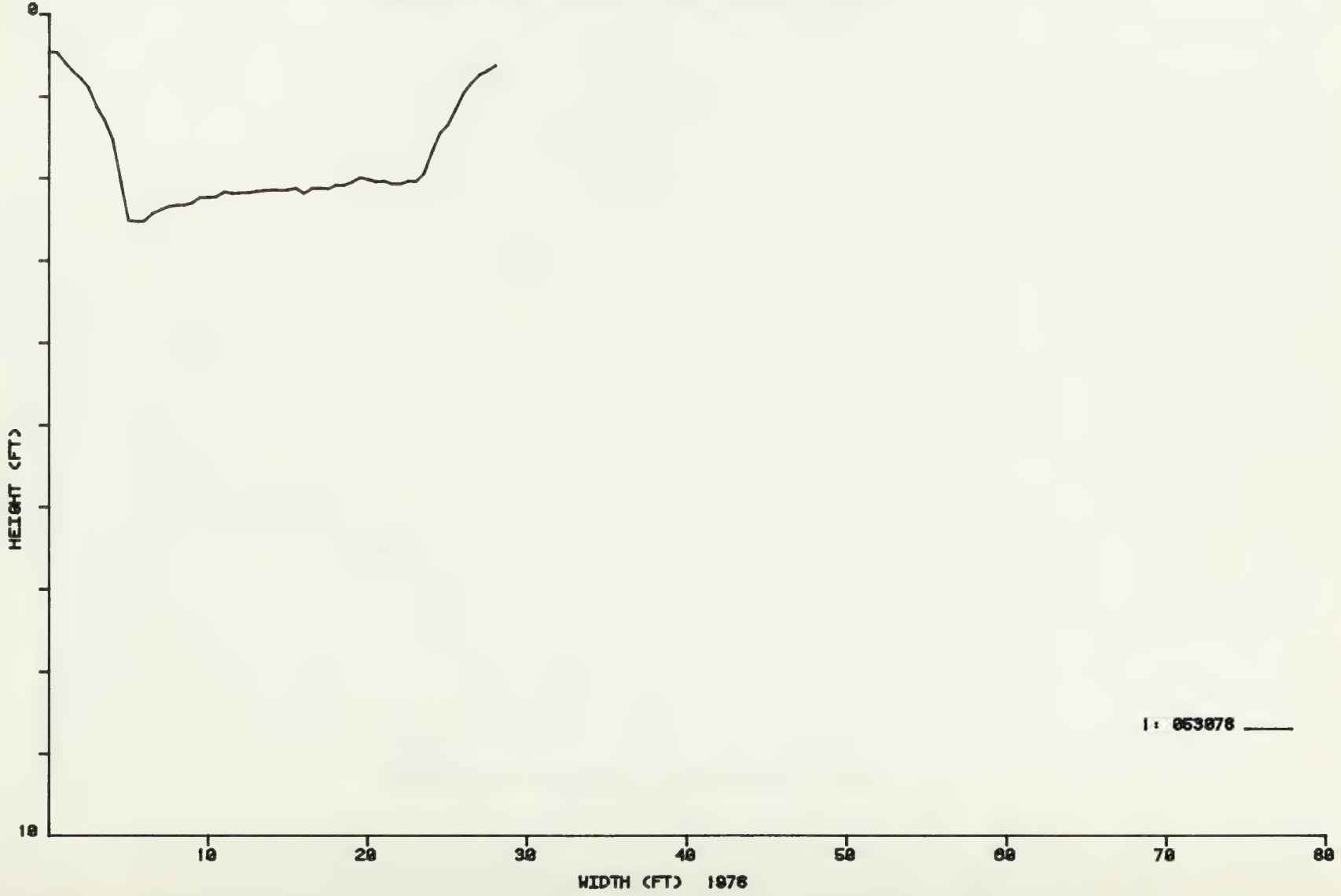
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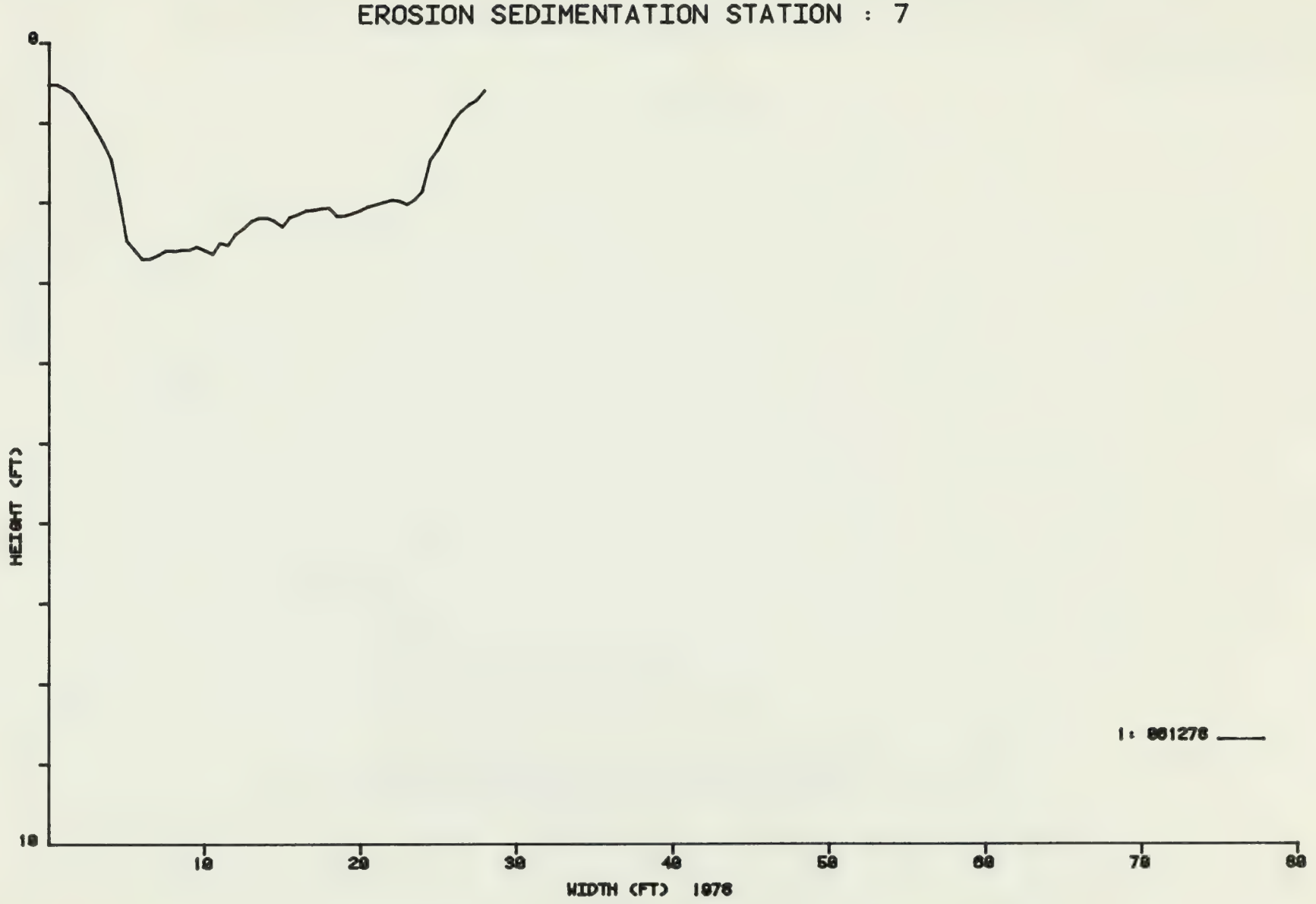
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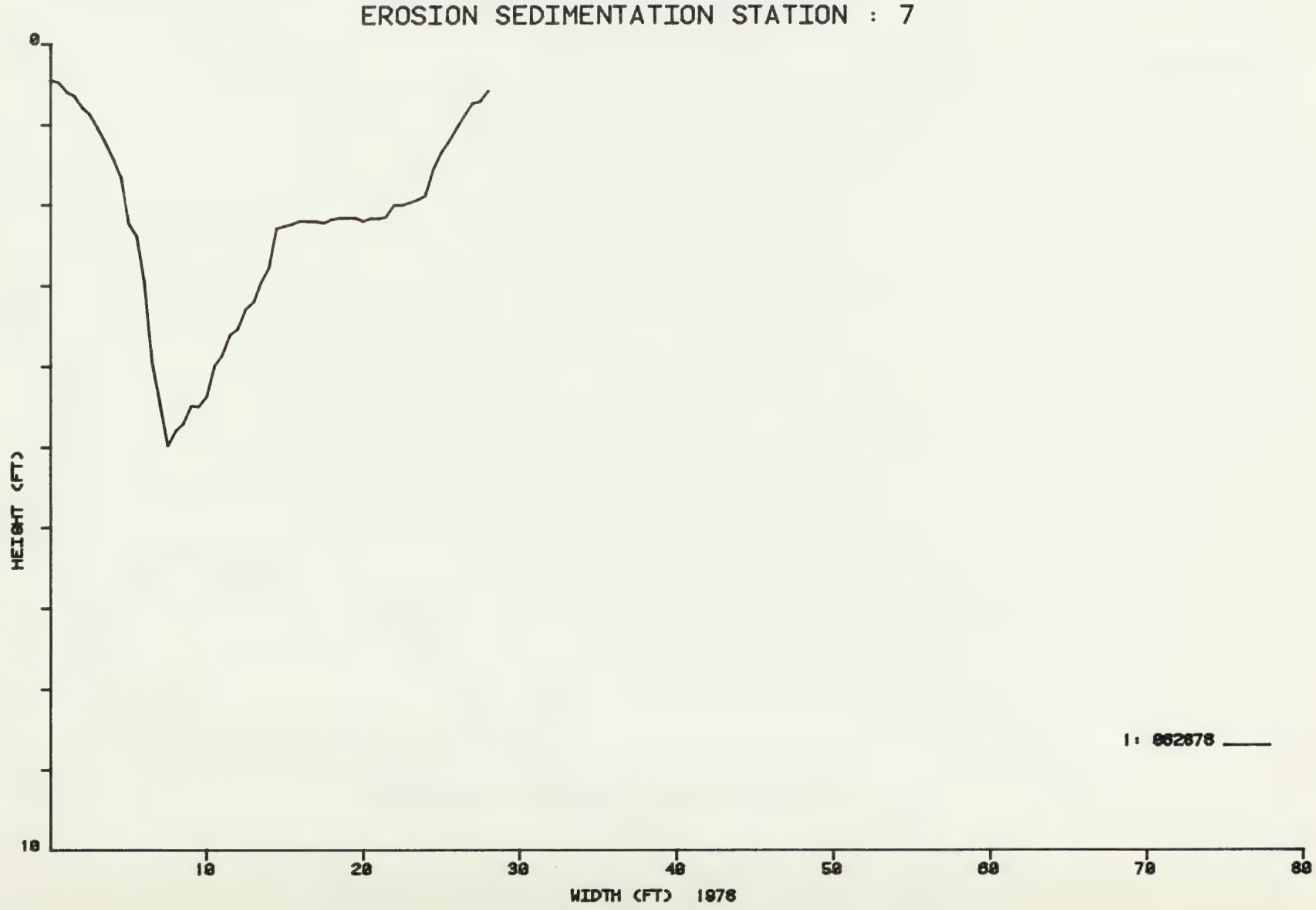
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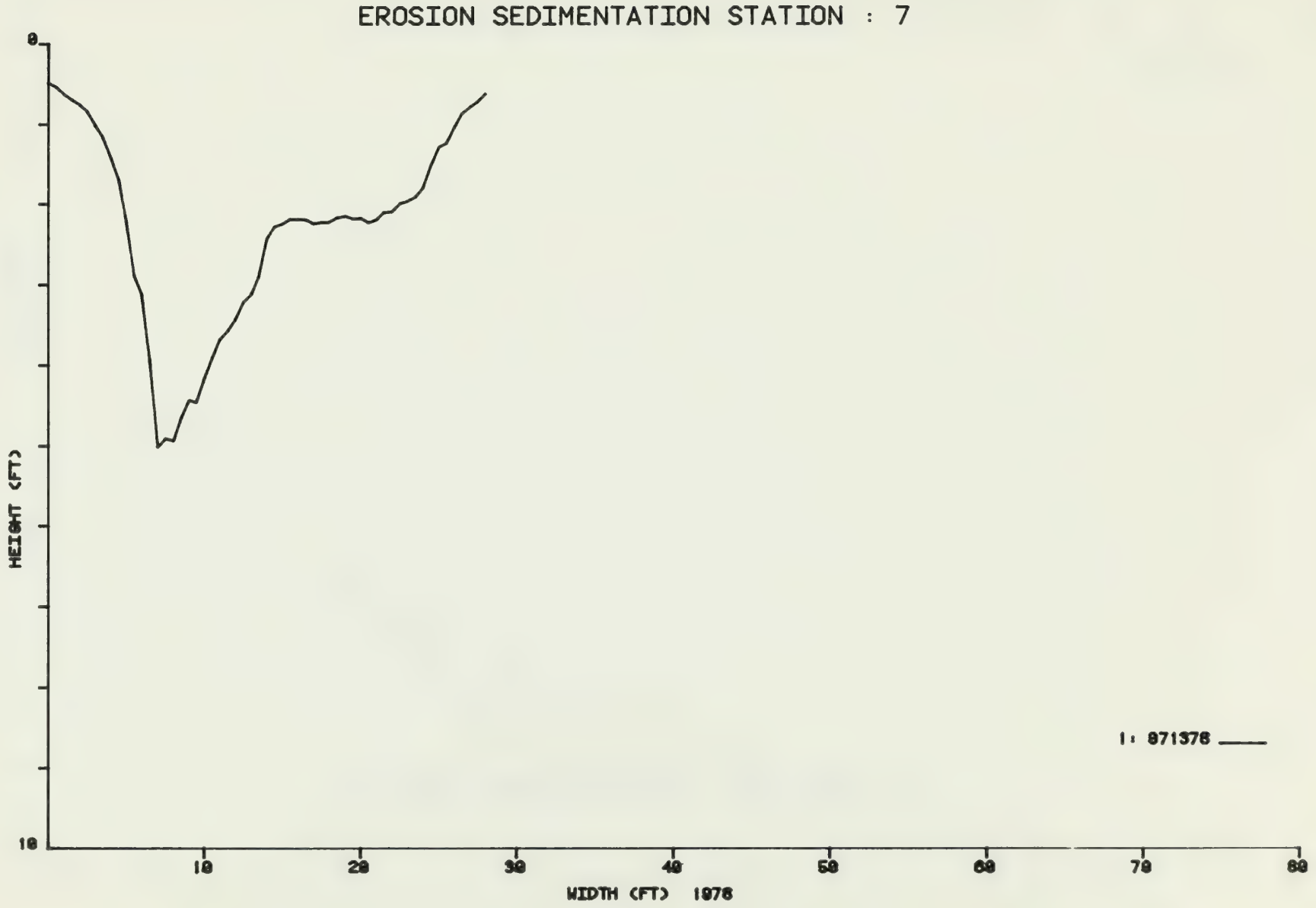
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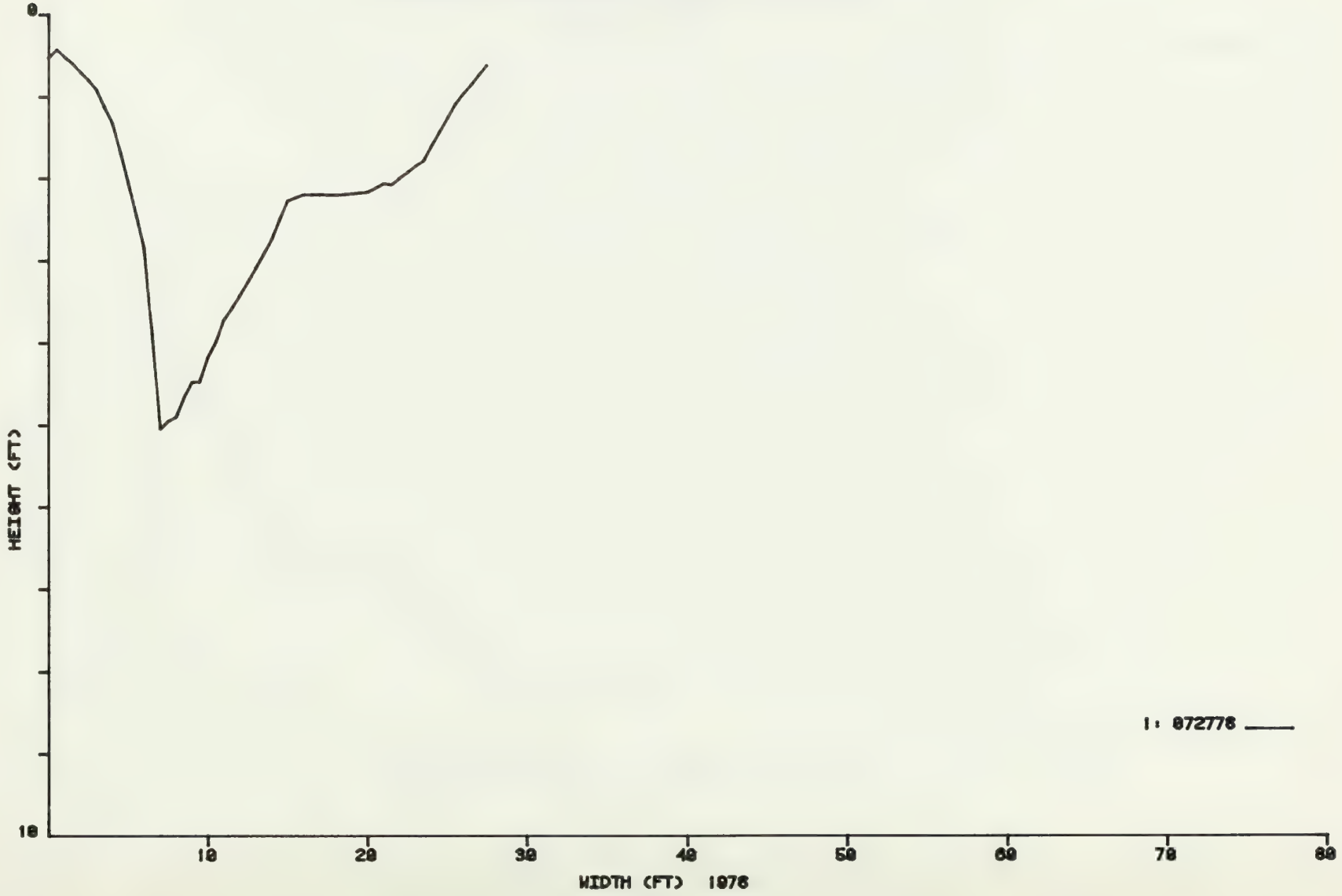
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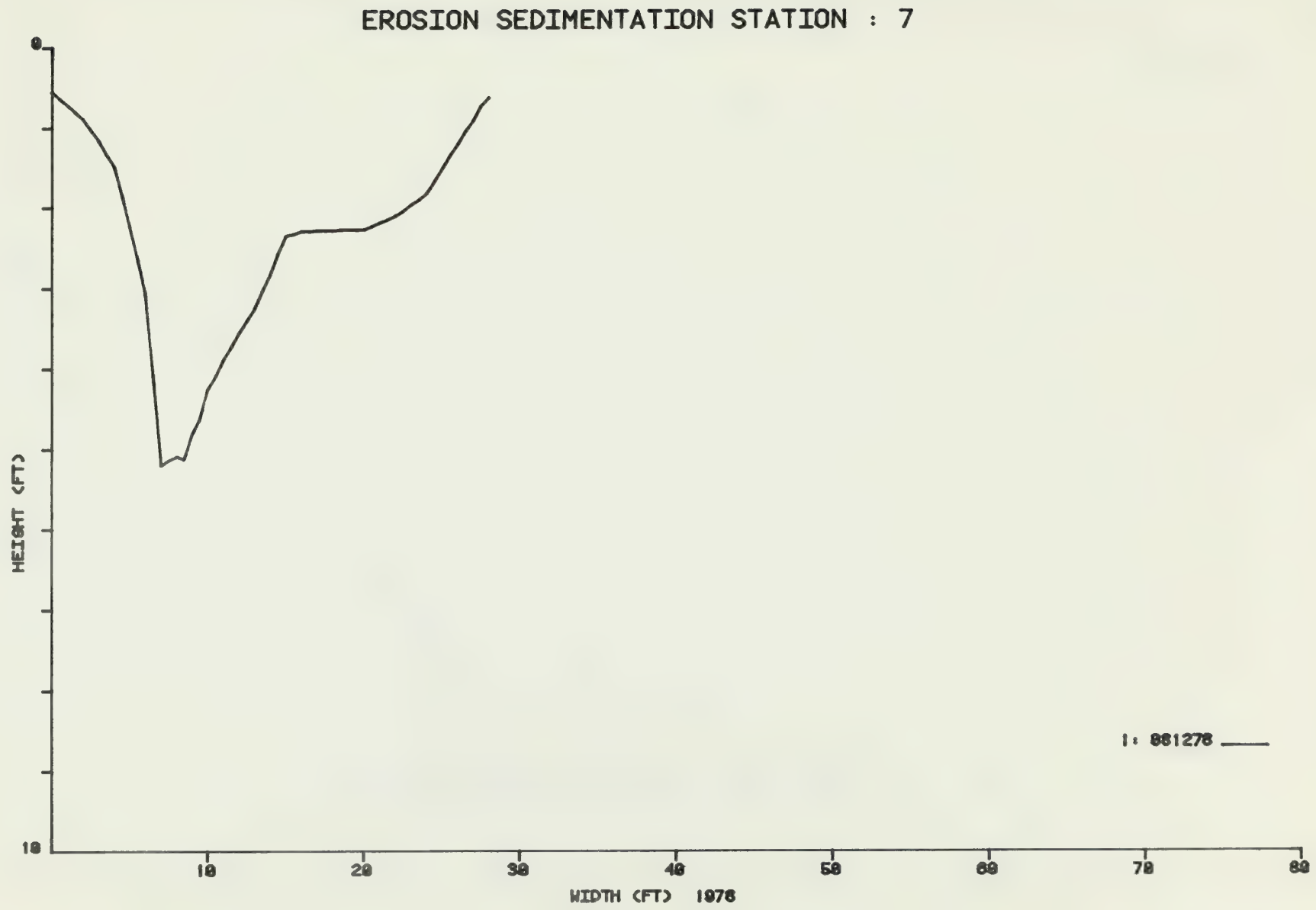
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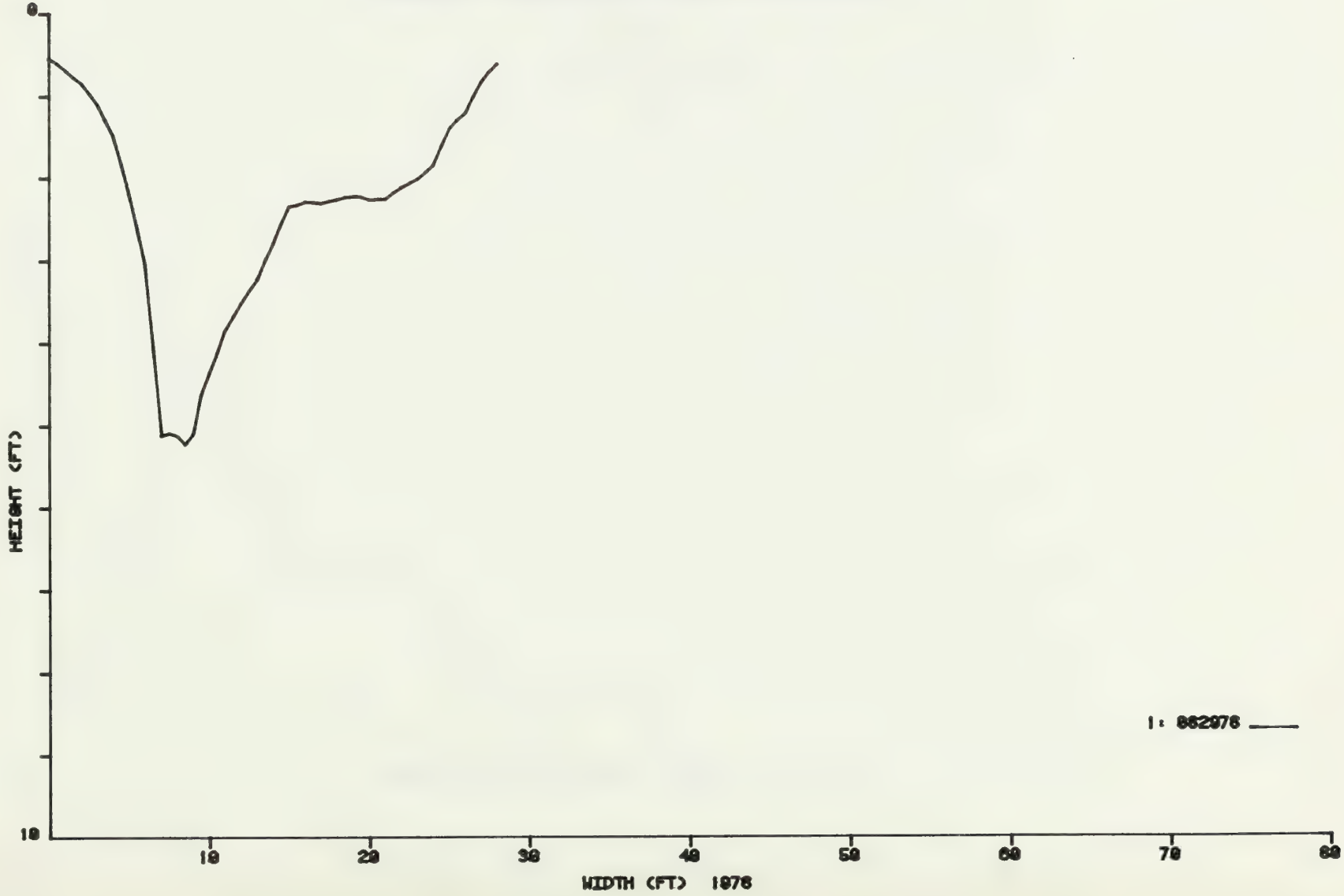
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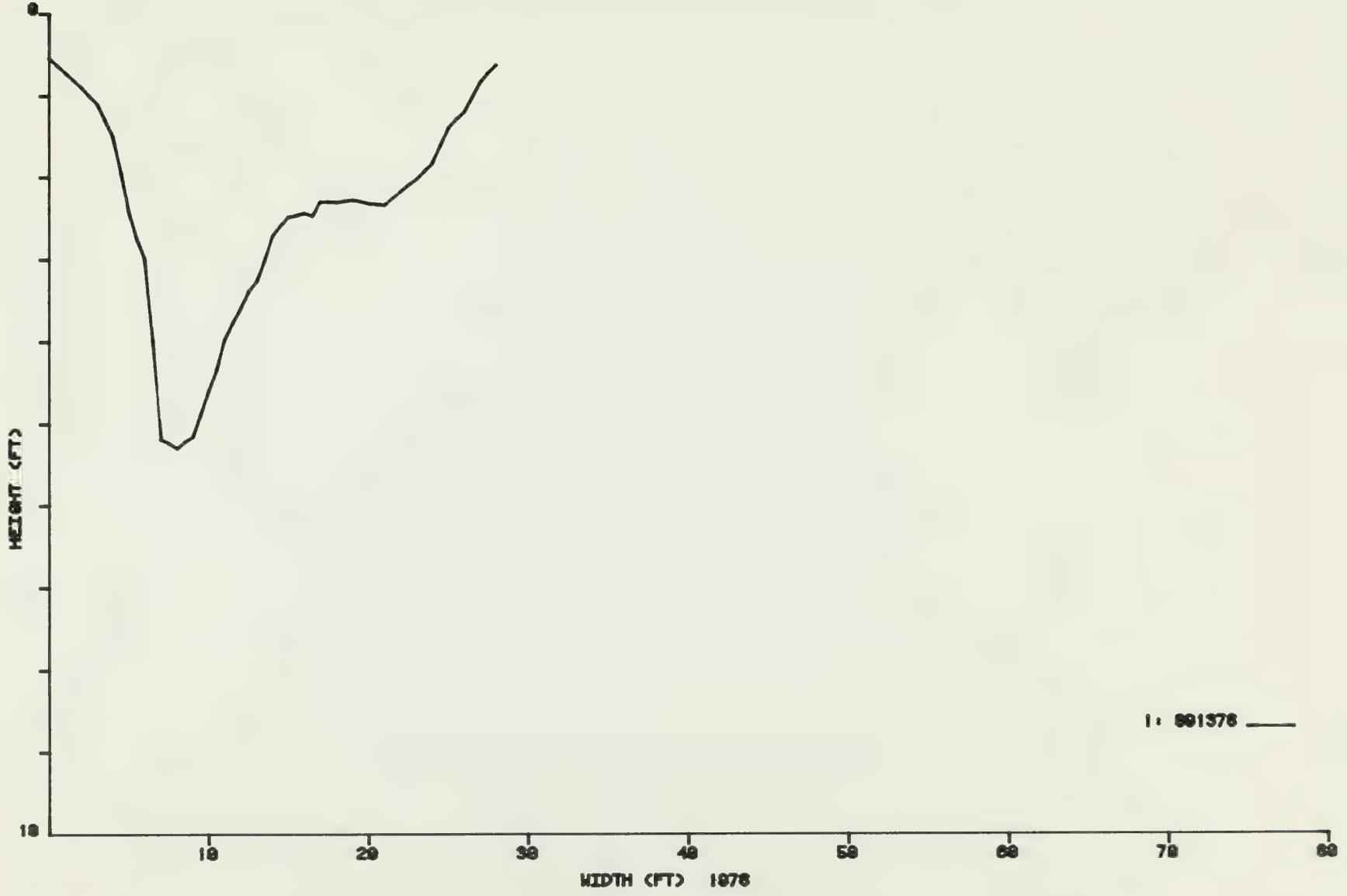
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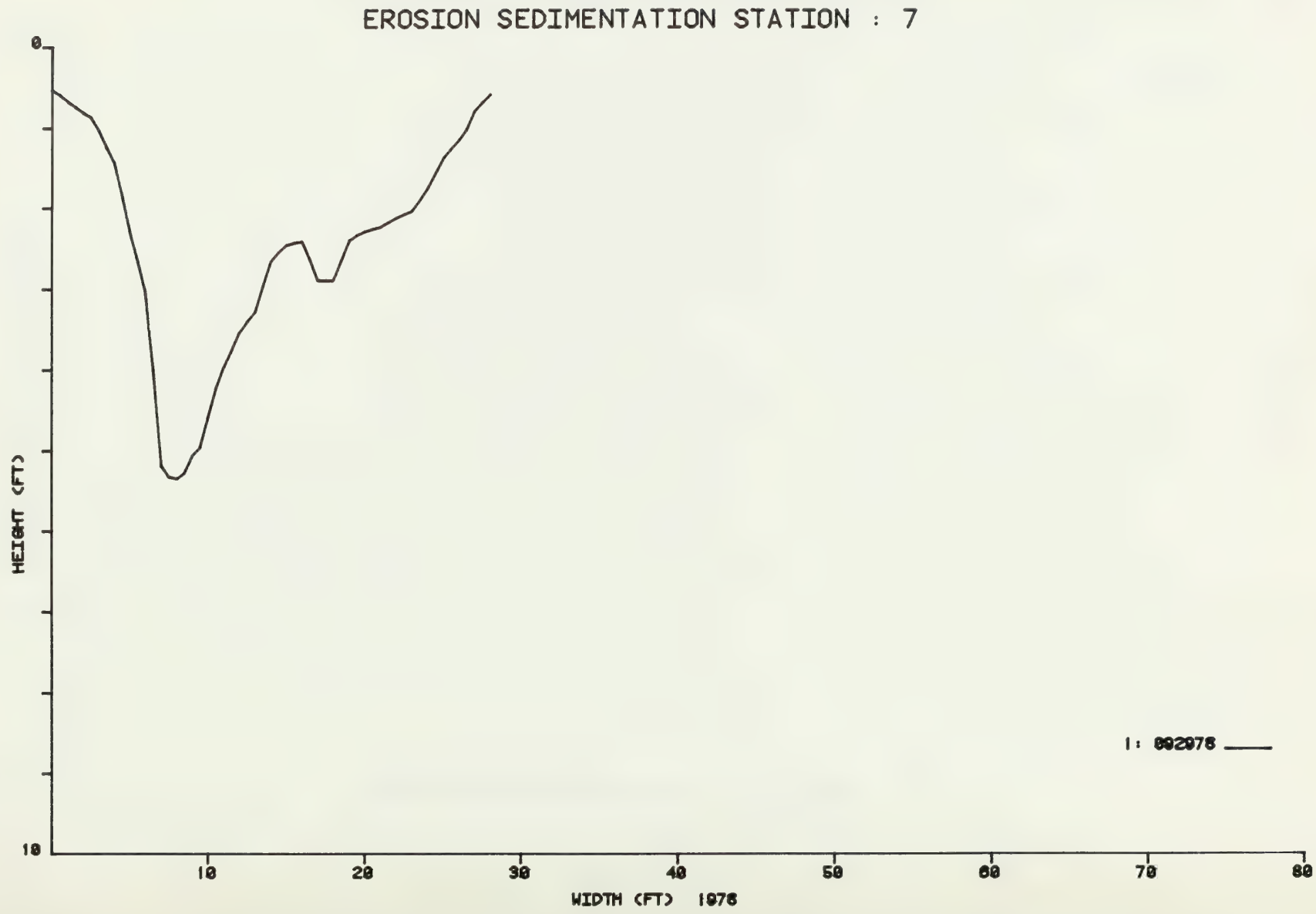
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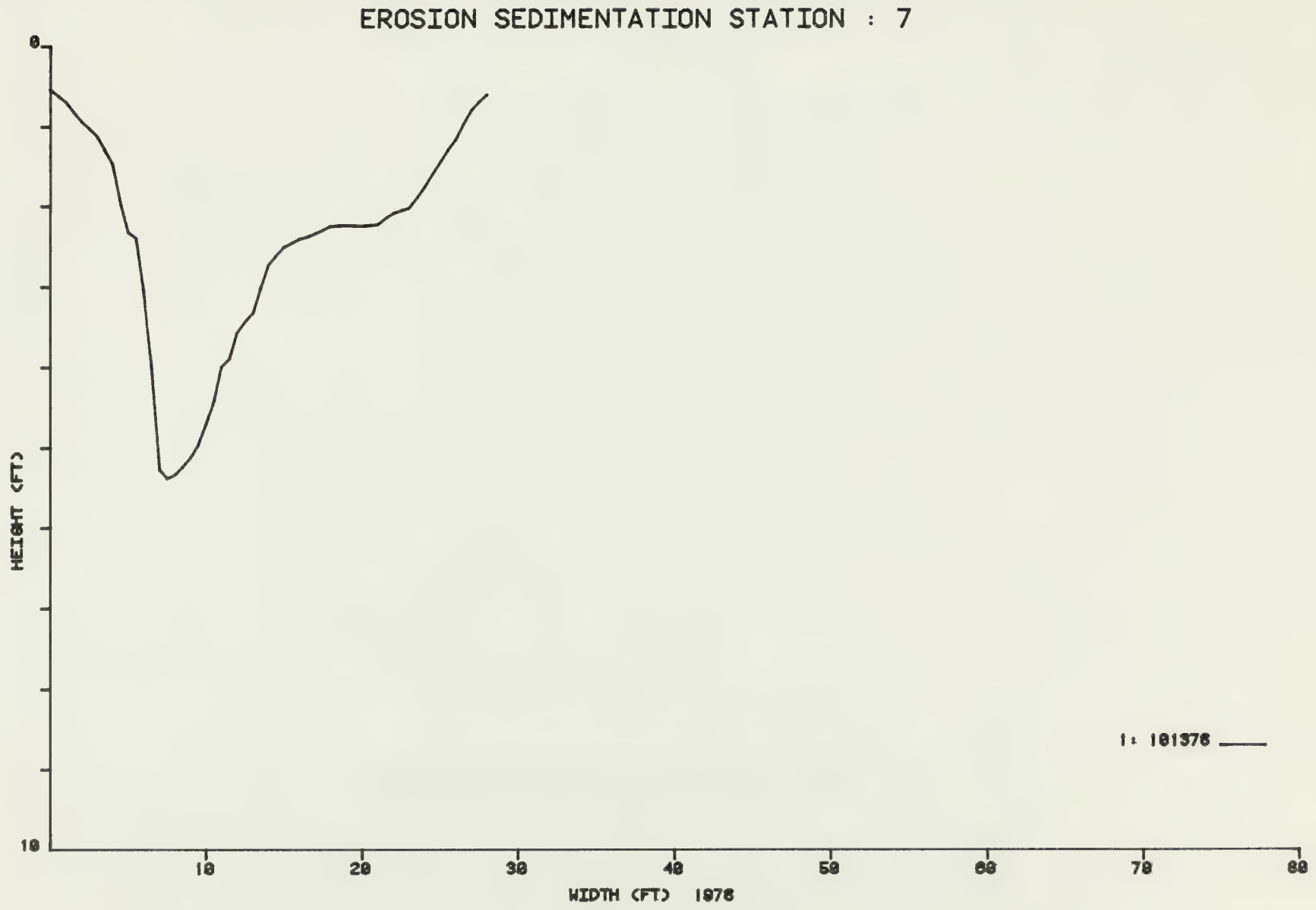
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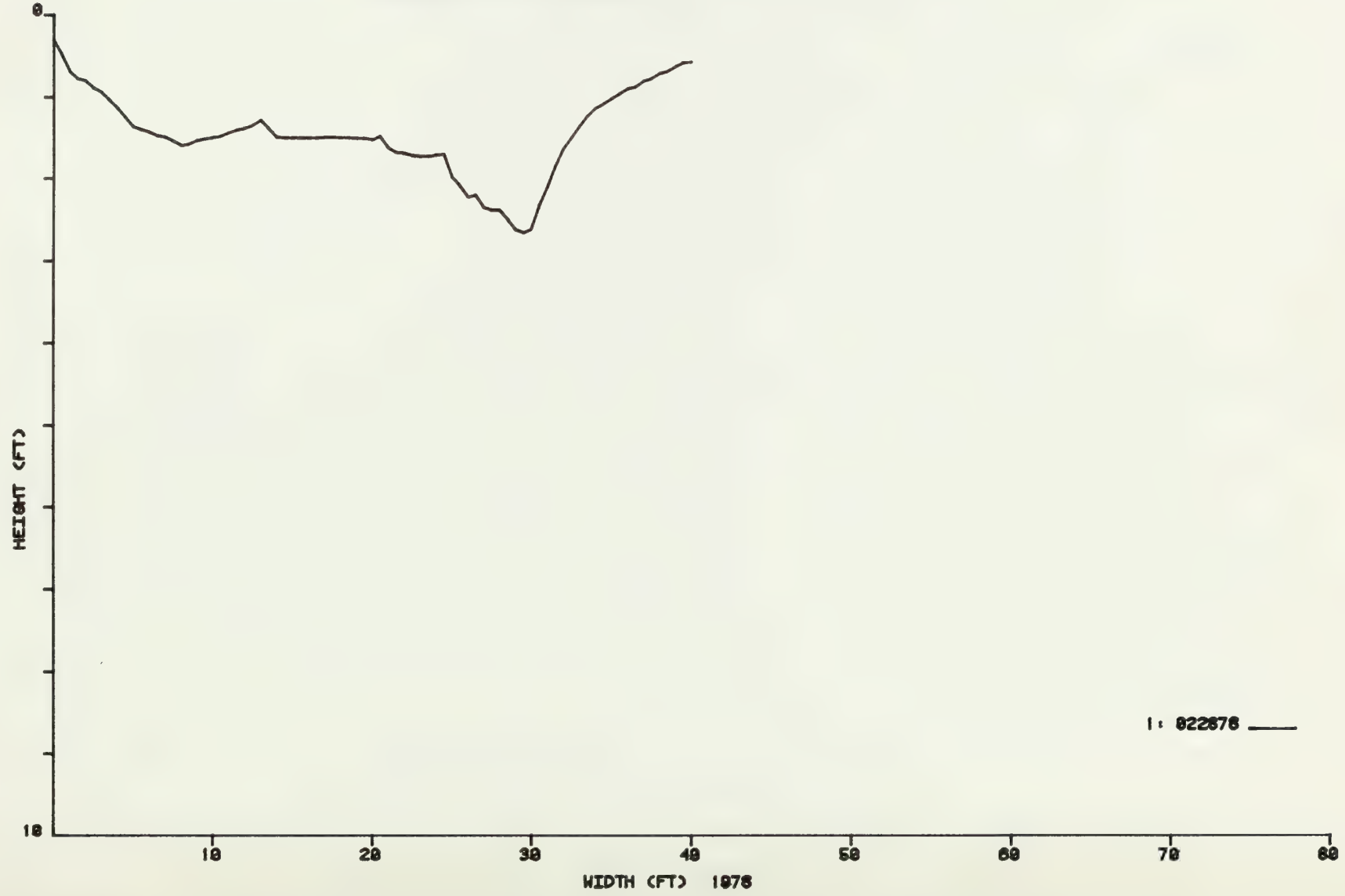
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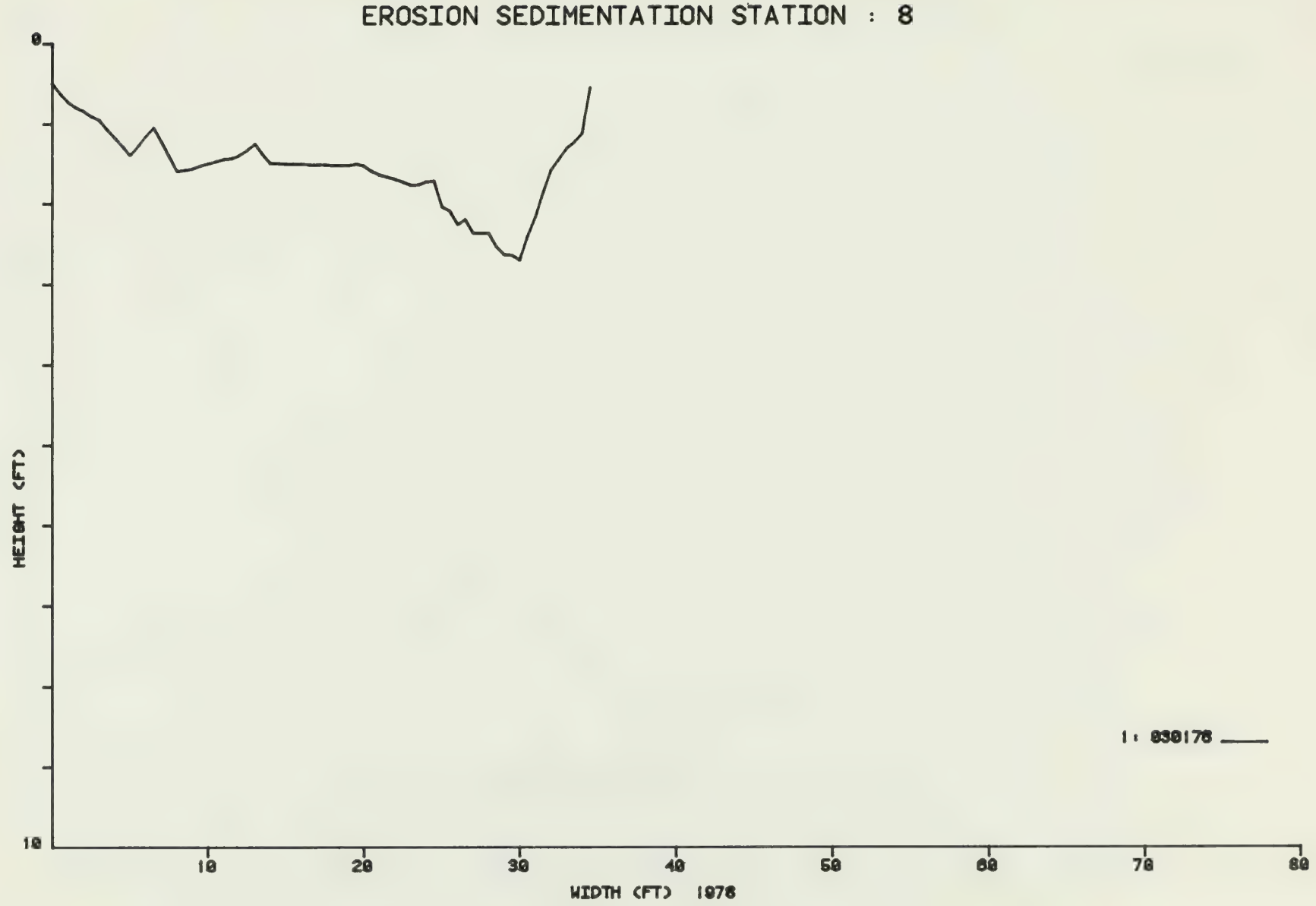
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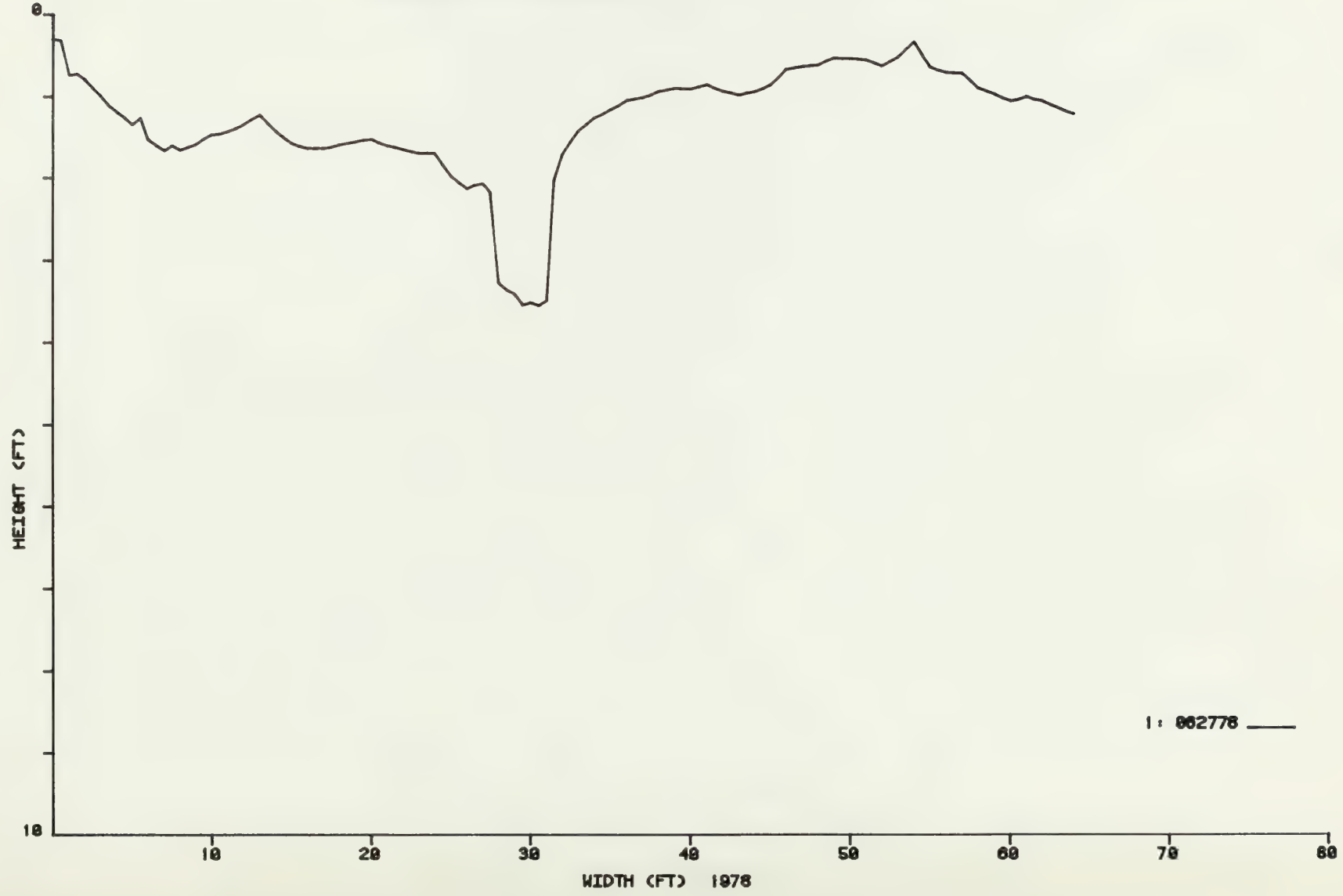
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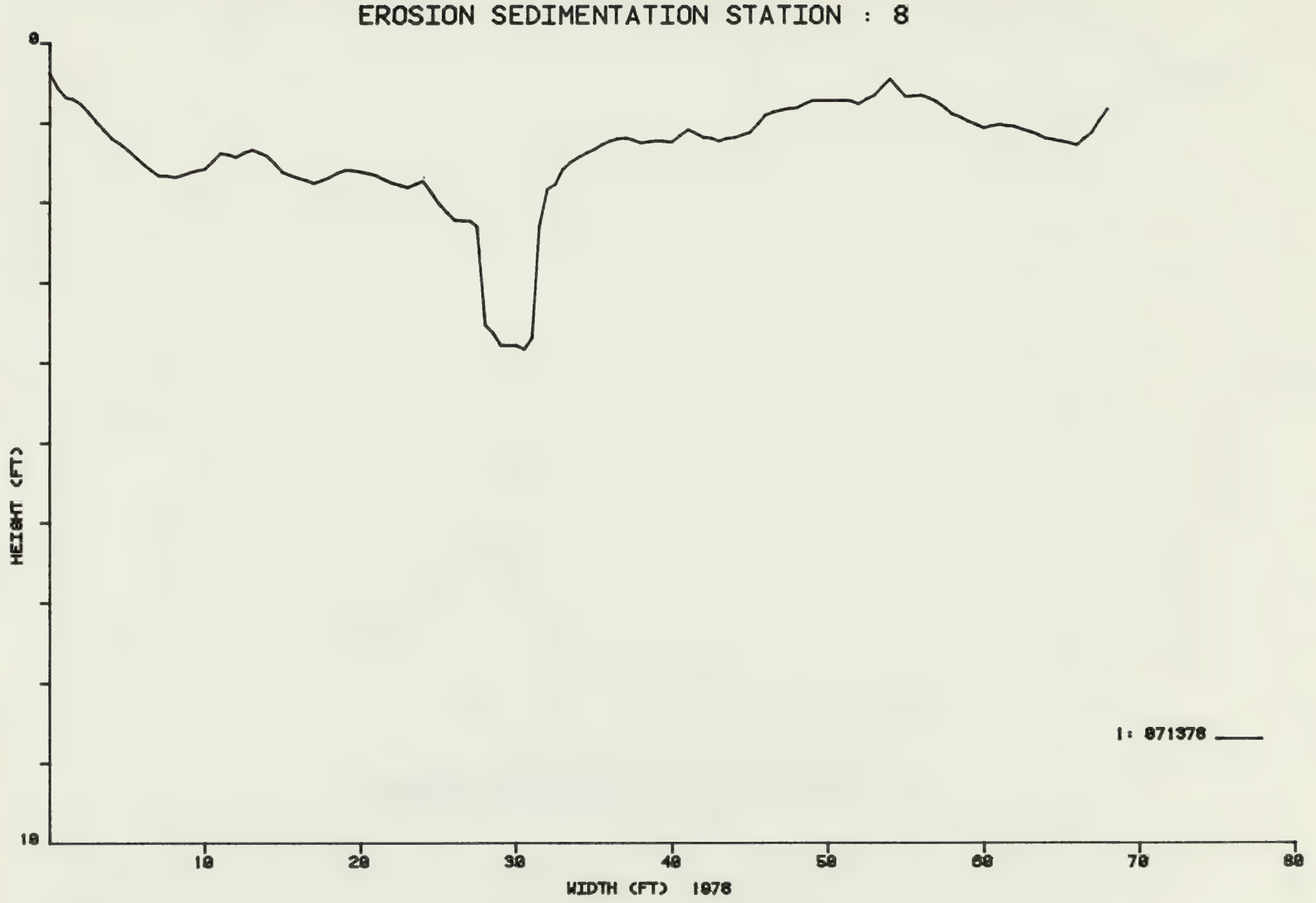
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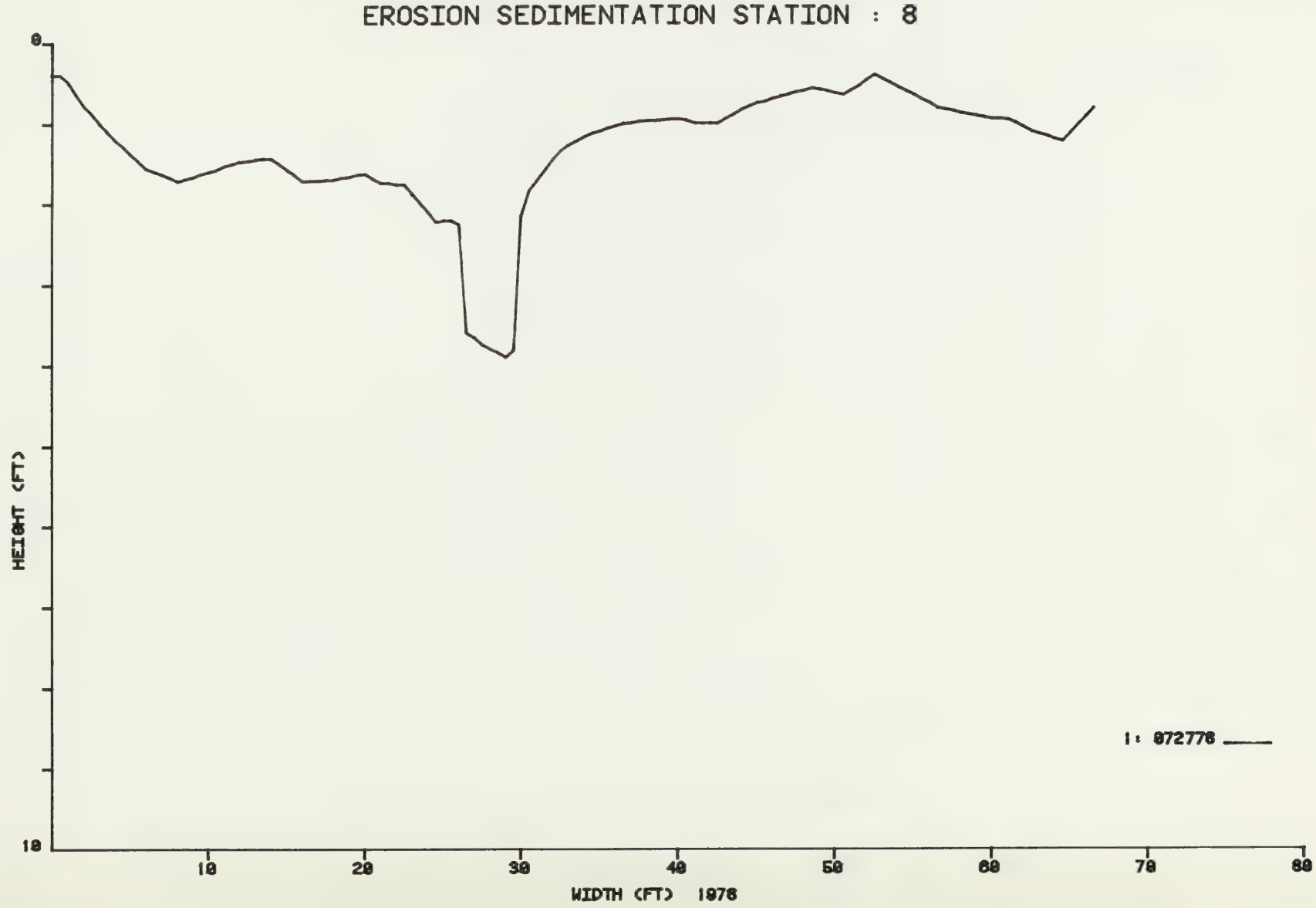
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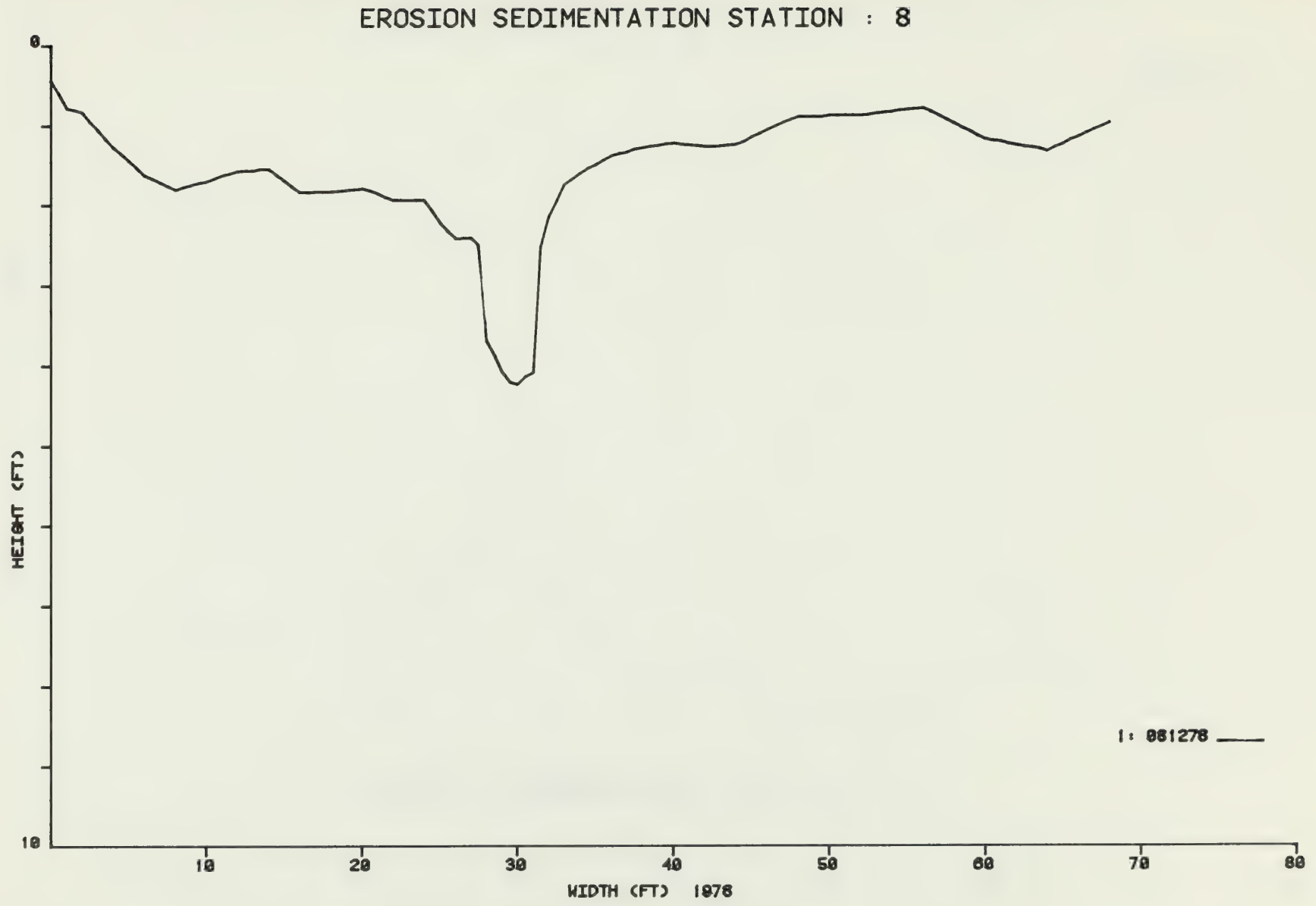
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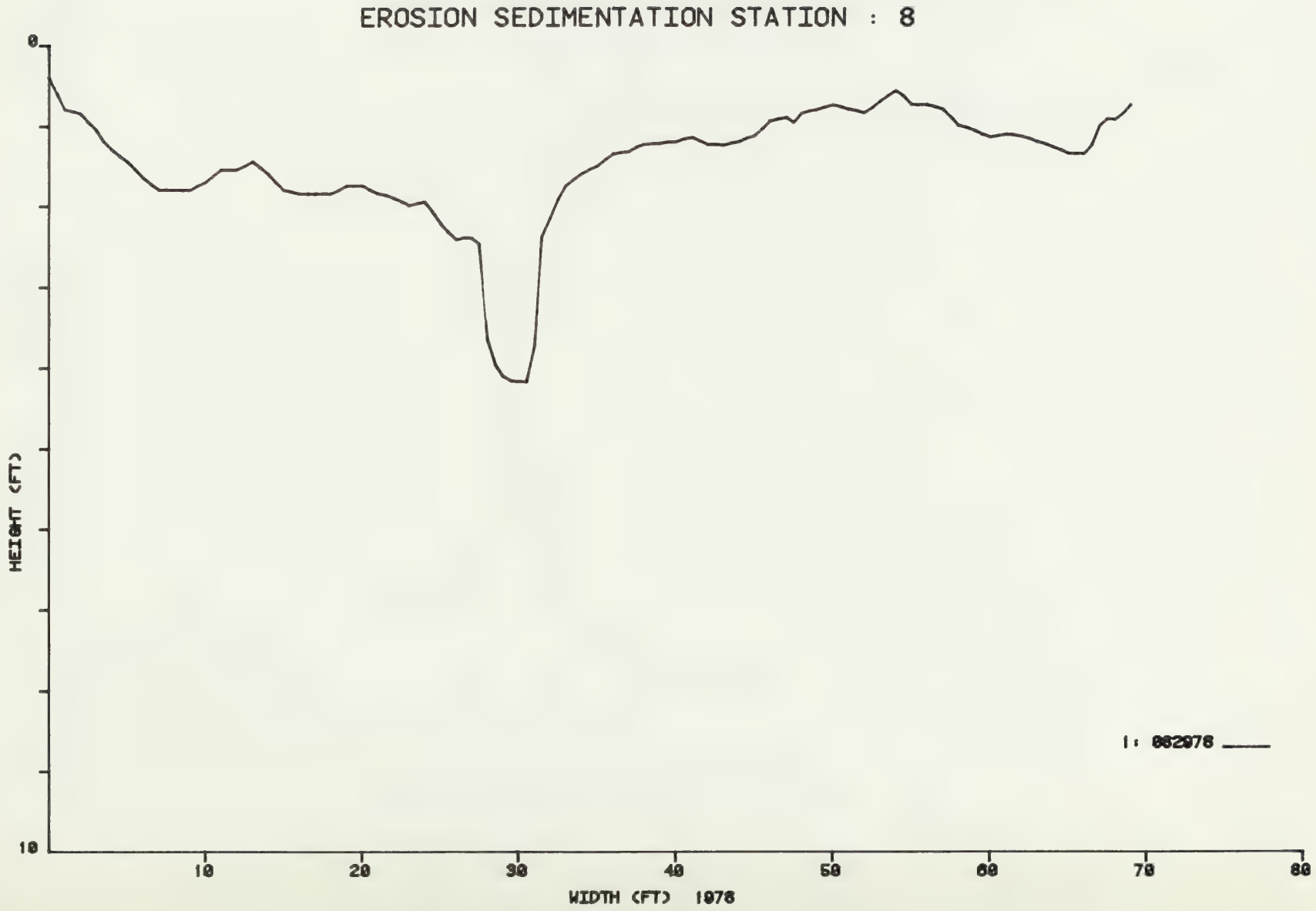
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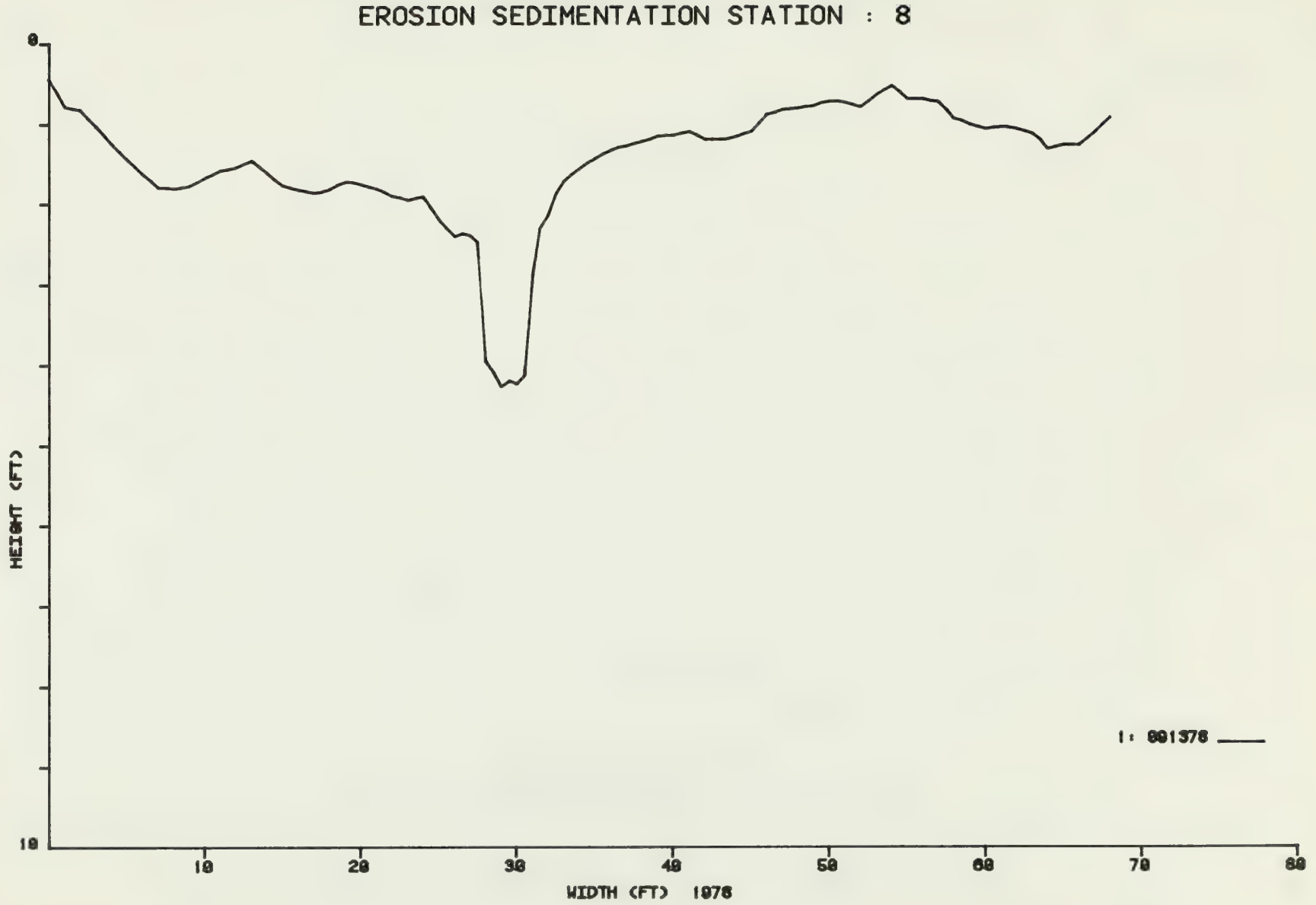
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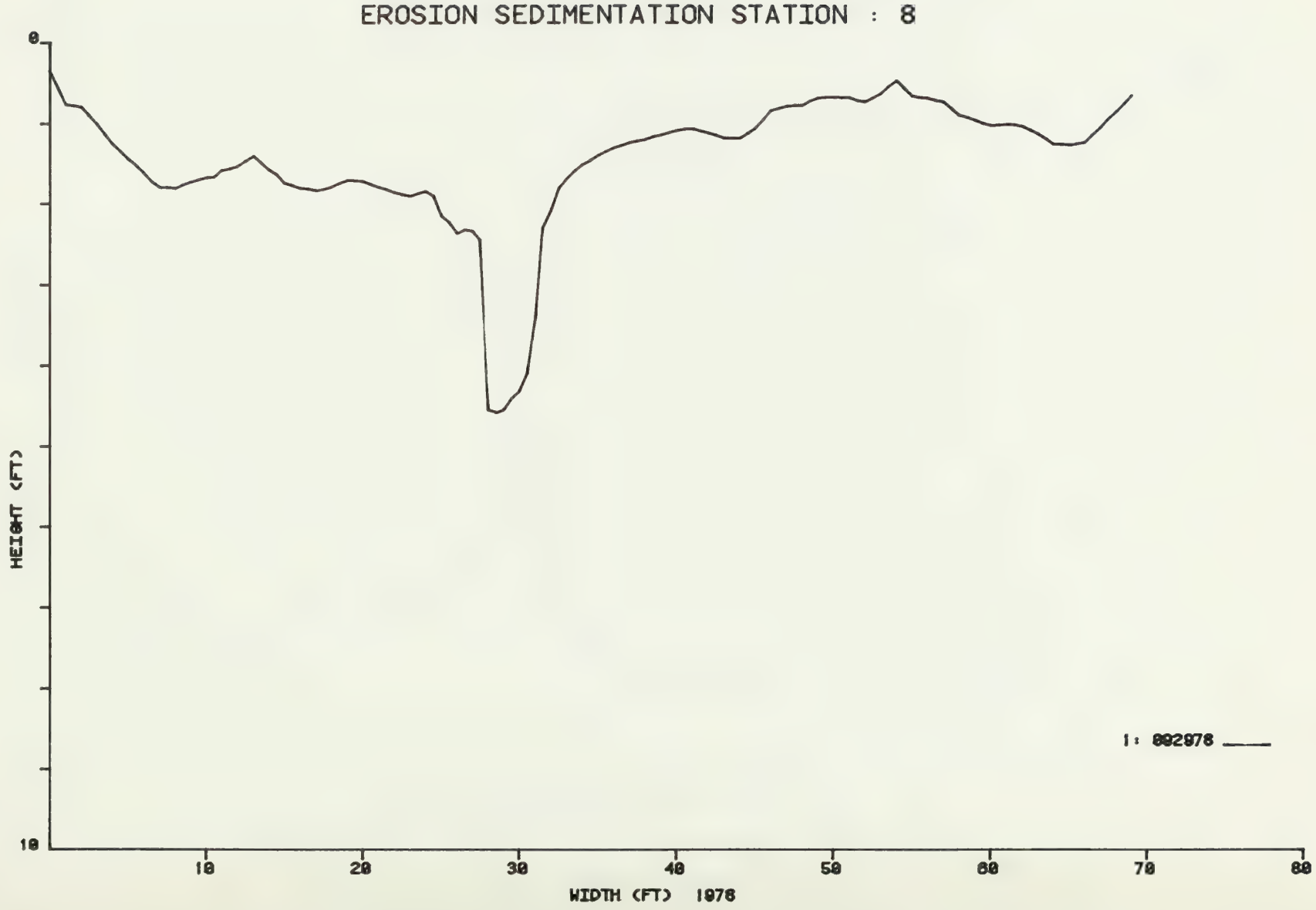
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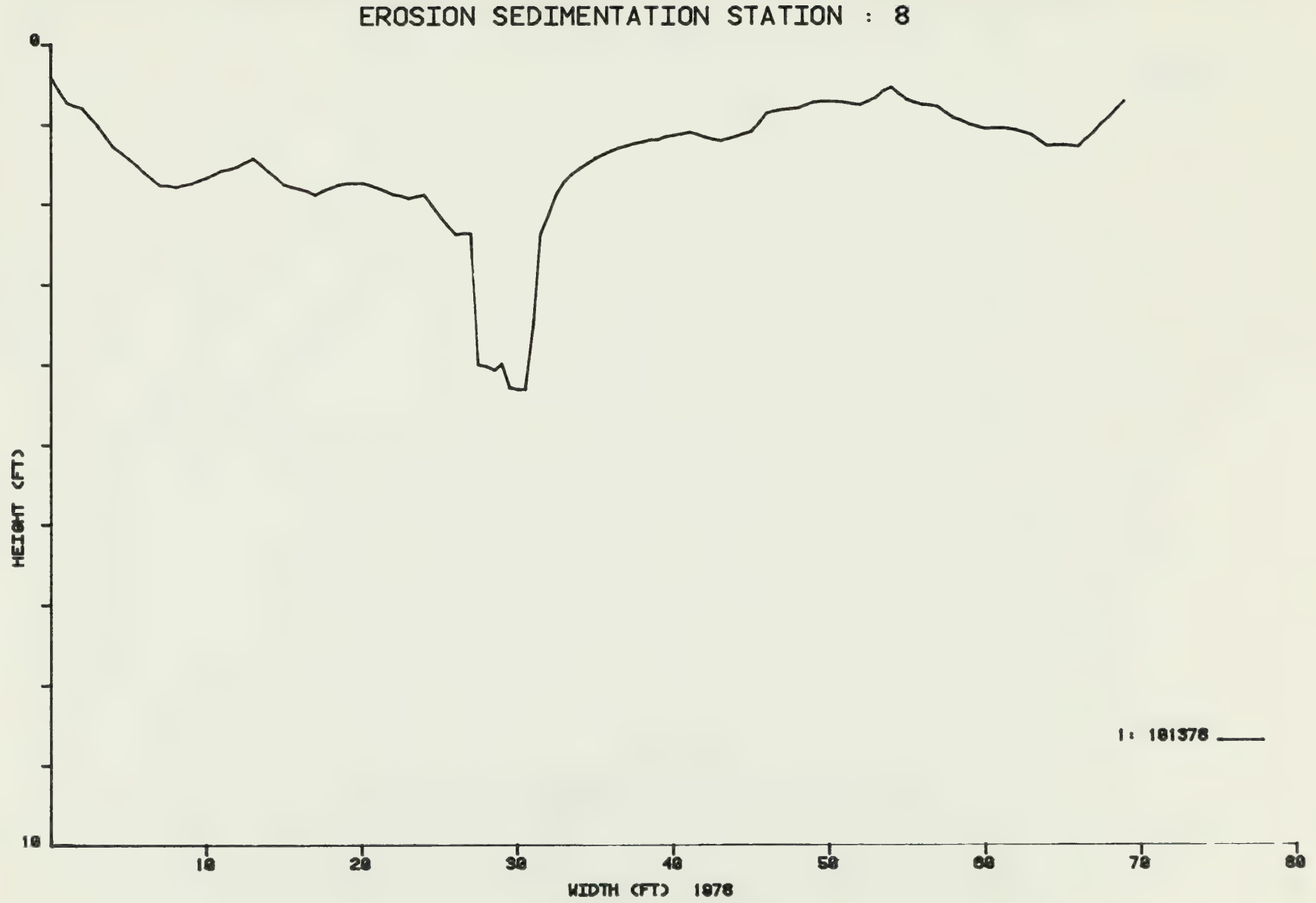
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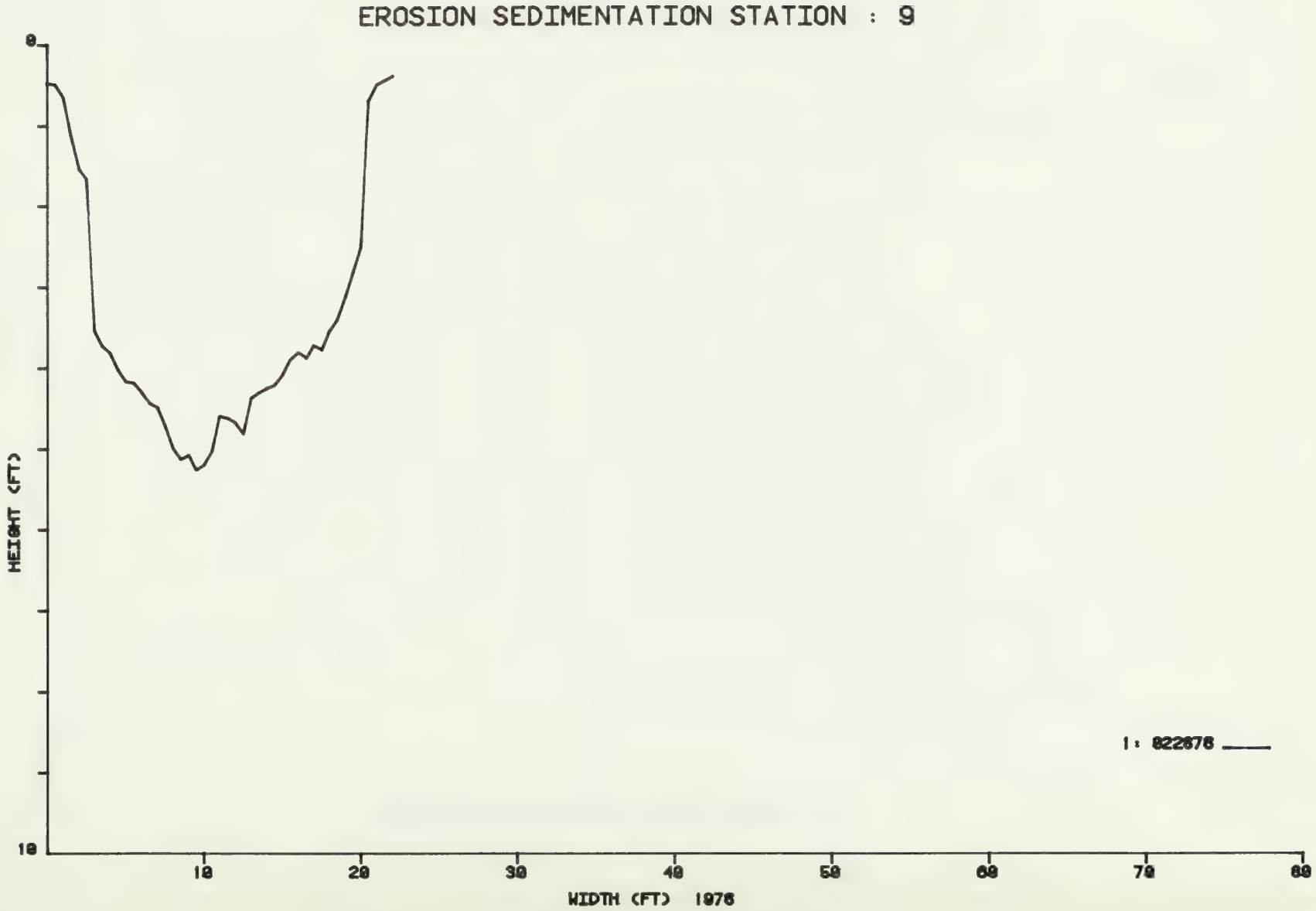
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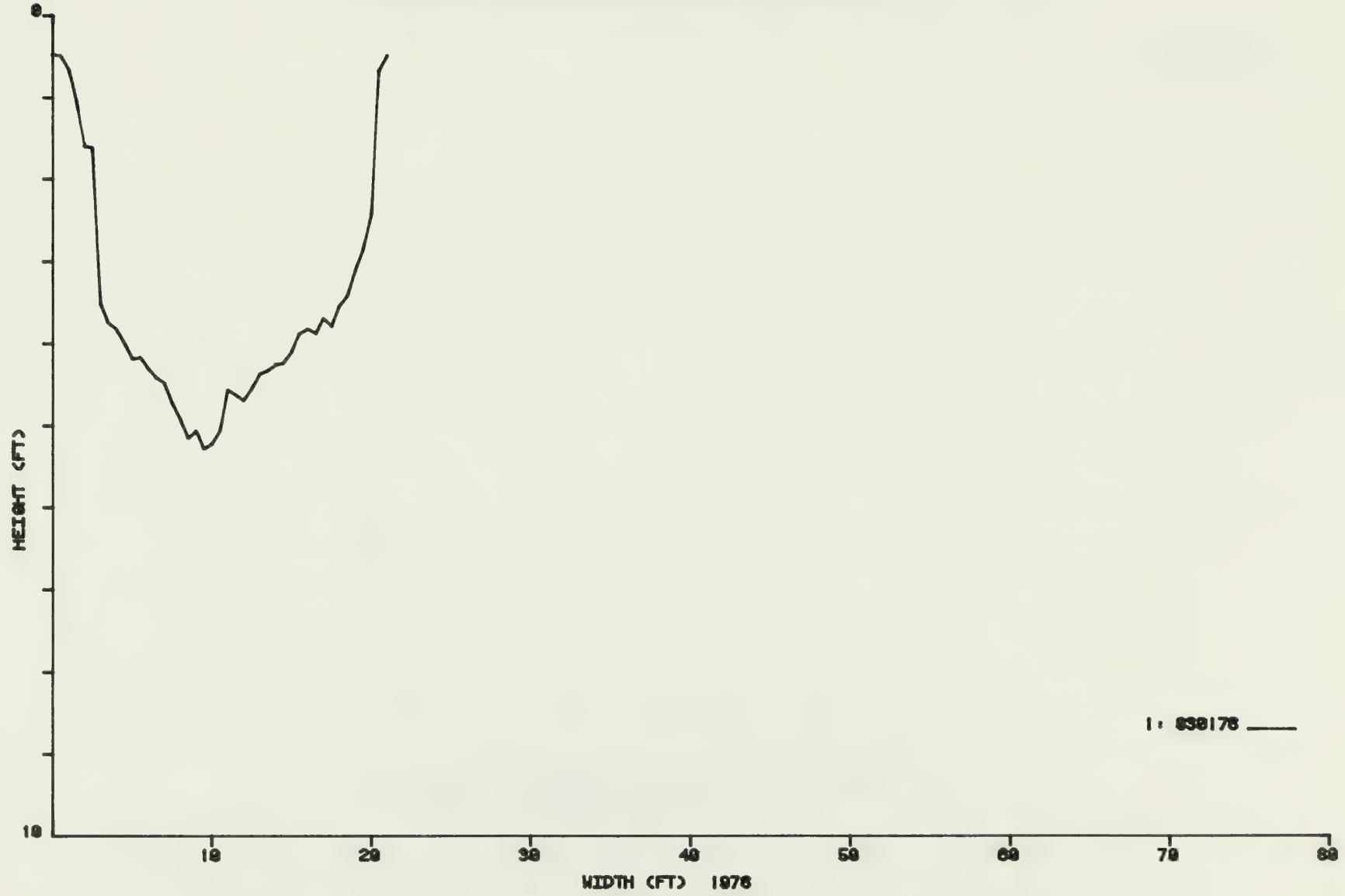
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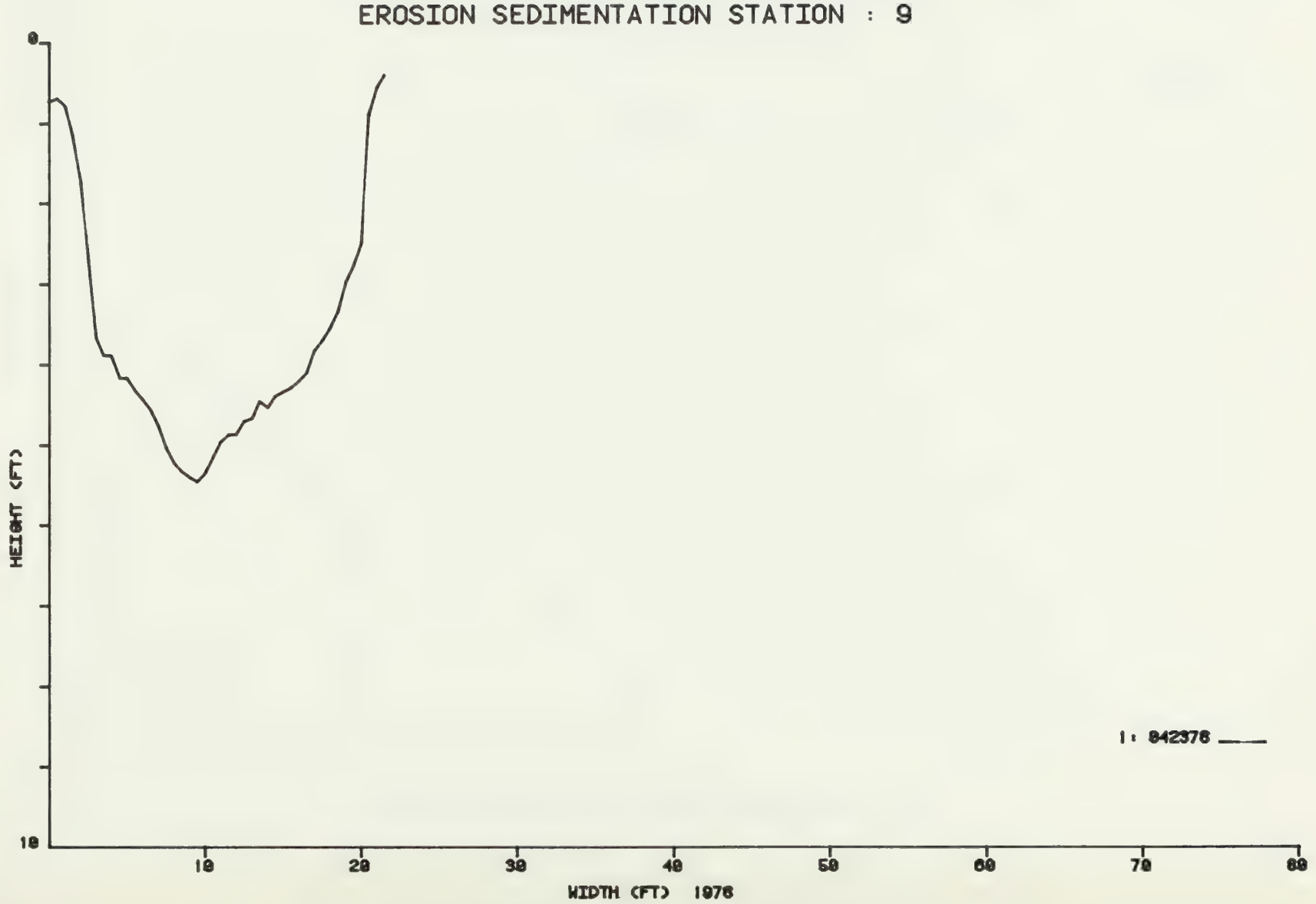
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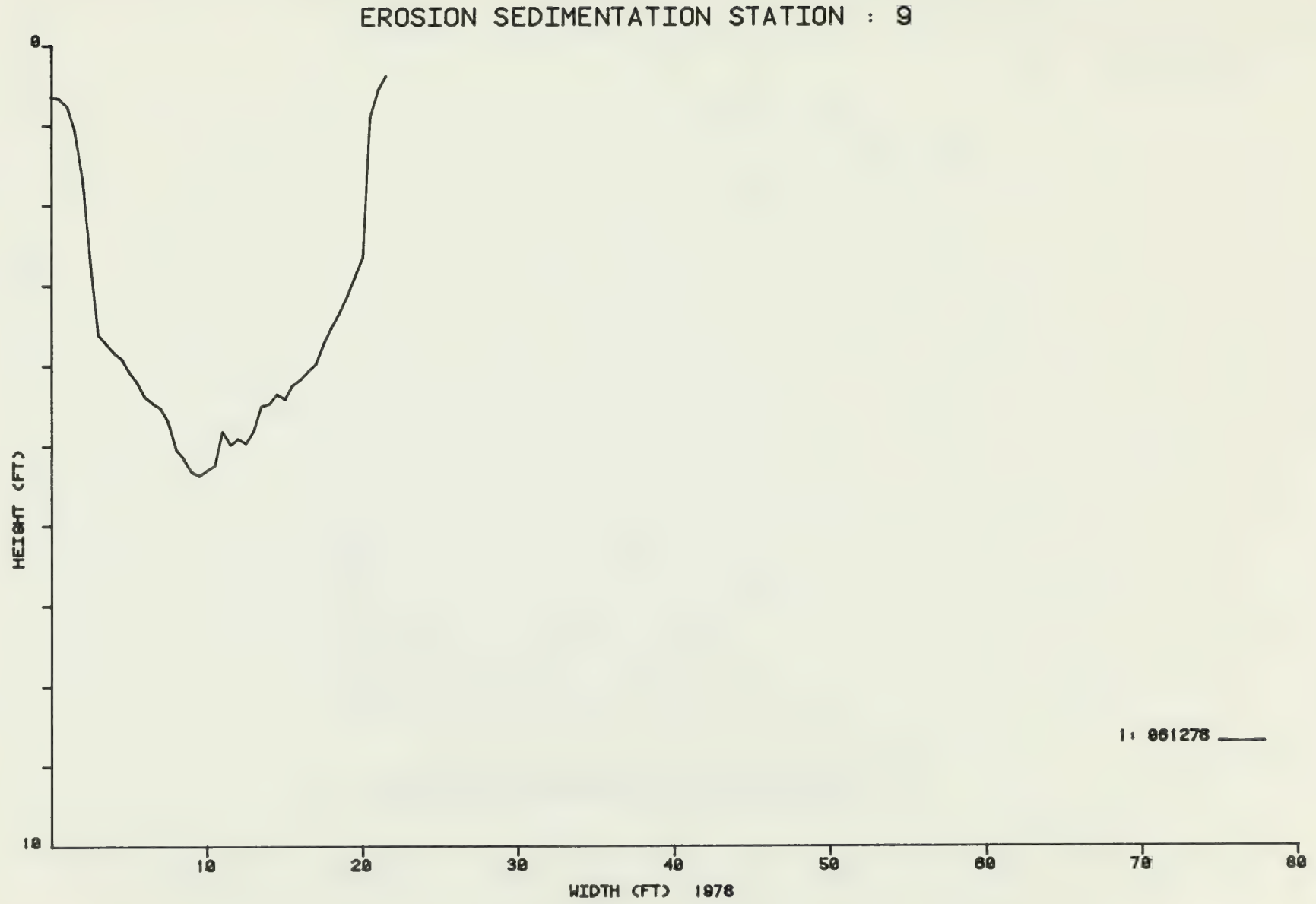
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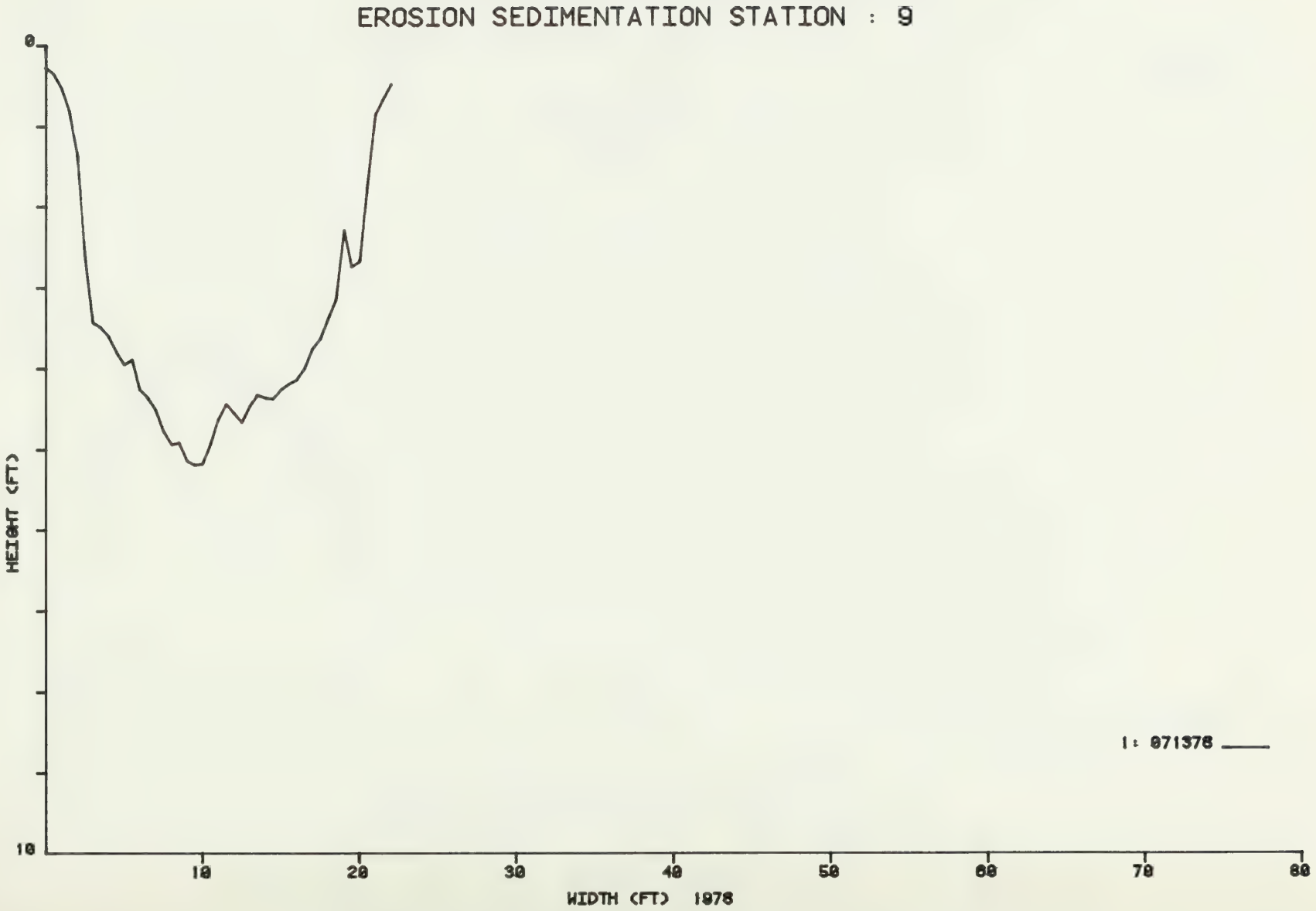
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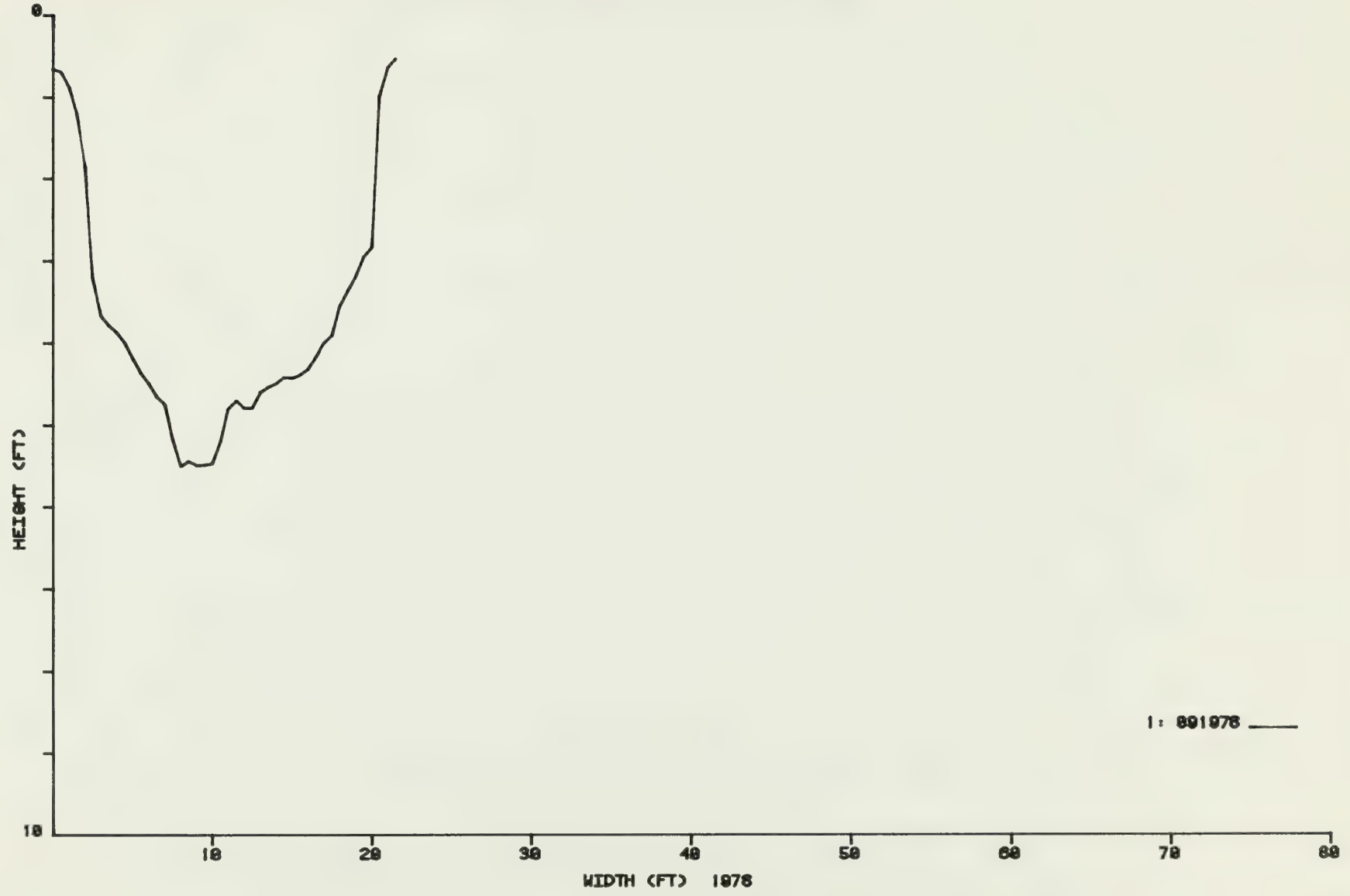
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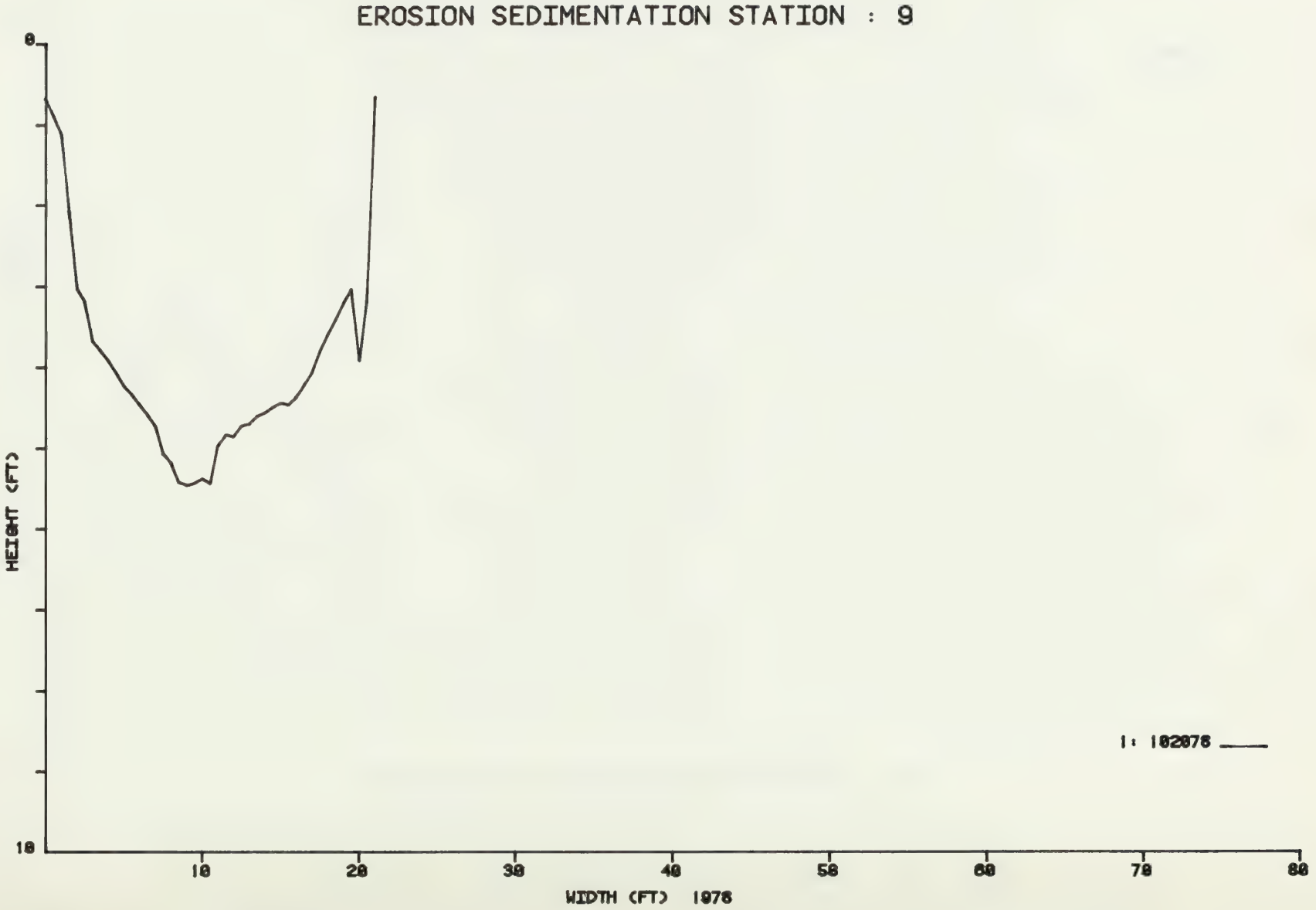
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APPENDIX 5-3.2
MDP ALLUVIAL AQUIFER WATER QUALITY DATA

JOB#-741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES		1
DATE		20177
DEPTH		0.0
TEMP		0.0
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LAB NUM		0
METHOD		03
AQUIF.LOC.		A
WET		
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01000	ARSE	0.0
00440	BICA	810.000
01025	CADM	-0.010
00915	CALC	110.000
00445	CARB	-0.100
00940	CHLO	12.000
01030	CHRO	-0.010
01040	COPP	-0.100
00950	FLUO	0.300
71830	HYDR	0.0
01046	IRON	-0.050
01049	LEAD	110.000
00925	MAGN	0.0
71890	MERC	-0.001
71851	NITR	1.900
70507	PHOS	0.200
00935	POTA	3.000
01145	SELE	-0.010
00955	SIL	31.000
00930	SODI	200.000
00945	SULF	420.000
00746	SULF	0.0
01090	ZINC	-0.100
01503	GROS	0.0
03501	GROS	0.0
00900	HARD	730.000
00400	PH	0.0
00095	COND	0.0
00540	DIS	1330.000
01056	MANG	0.500

00410	ALKA	665.000
00720	CYAN	0.0
01020	BORO	3.400
01005	BARI	0.0
01075	SILV	0.0
01065	NICK	0.0
01130	LITH	-0.100
00681	DOC	5.500
00613	NITR	0.030
71870	BROM	-0.100
01/02/79		
SAMPLES		1
00340	C.O.	-1.000
32730	PHEN	0.0
00625	KJEL	2.000
01010	BERY	0.0
01060	MOLY	-0.100
01080	STRO	3.900
01085	VANA	0.0
00660	ORTH	0.100
00608	AMMO	0.200
00681	DIS-	0.0
38260	MBAS	0.0
31501	TOT	0.0
31615	FEC	0.0
00310	5-DA	0.0
SPECTROGRAPHIC		
01006	ALUM	1.000
01095	ANTI	0.0
01000	ARSE	0.0
01005	BARI	0.0
01010	BERY	0.0
01015	BISM	0.0
01020	BORO	0.500
01025	CADM	0.0
00915	CALC	99999.000
	CERI	0.0
	CESI	0.0
01030	CHRO	0.0
01035	COBO	0.0
	COLU	0.0
01040	COPP	0.001
	DYSP	0.0
	ERBI	0.0
	EURO	0.0
	GADO	0.0
01120	GALL	0.0
01125	GERM	0.0
	GOLD	0.0
	HAFN	0.0
	HOLM	0.0
	INDI	0.0
	IRID	0.0
01046	IRON	0.200
	LANT	0.0
01049	LEAD	0.001
01130	LITH	0.0
	LUTE	0.0
00925	MAGN	99999.000

01056	MANG	0.100	
71890	MERC	0.0	
01060	MOLY	0.001	
	NEOD	0.0	
01065	NICK	0.0	
	OSMI	0.0	
	PALL	0.0	

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S12 PAGE 3

SAMPLES		1	
	PLAT	0.0	
00935	POTA	0.010	
	PRAS	0.0	
09503	RADI	0.0	
	RHEN	0.0	
	RHOD	0.0	
01135	RUBI	0.0	
	RUTH	0.0	
	SAMA	0.0	
	SCAN	0.0	
01145	SELE	0.0	
00955	SILI	2.000	
01075	SILV	0.0	
00930	SODI	5.000	
01080	STRO	0.100	
	TANT	0.0	
	TERB	0.0	
	THAL	0.0	
	THOR	0.0	
	THUL	0.0	
01100	TIN	0.0	
01150	TITA	0.010	
	TUNG	0.0	
22703	URAN	0.0	
01085	VANA	0.0	
	YTTE	0.0	
	YTTR	0.0	
01090	ZINC	0.0	
01160	ZIRC	0.0	

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S19 PAGE 10

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES		1	2
DATE		20177	41977
DEPTH		0.0	55.96
TEMP		0.0	10.0
LAB ID			
LAB NUM		0	0
METHOD		3	3
AQUIF.LOC.		A	A
WET			
01106	ALUM	0.200	0.0
71846	AMMO	0.0	0.0
01000	ARSE	0.0	0.0
00440	BICA	560.000	565.000
01025	CADM	-0.010	0.0
00915	CALC	98.000	33.000
00445	CARB	-0.100	-0.100

00940	CHLO	11.000	16.000
01030	CHRO	-0.010	0.0
01040	COPP	-0.100	0.0
00950	FLUO	0.200	0.200
71830	HYDR	0.0	0.0
01046	IRON	0.080	-0.050
01049	LEAD	0.040	0.0
00925	MAGN	75.000	135.000
71890	MERC	-0.001	0.0
71851	NITR	4.800	6.200
70507	PHOS	0.100	0.100
00935	POTA	3.000	2.700
01145	SELE	-0.010	0.0
00955	SIL	31.000	22.000
00930	SODI	220.000	155.000
00945	SULF	510.000	450.000
00746	SULF	0.0	0.0
01090	ZINC	-0.100	0.0
01503	GROS	0.0	0.0
03501	GROS	0.0	0.0
00900	HARD	550.000	630.000
00400	PH	0.0	6.400
00095	COND	0.0	1540.000
00540	DIS	1280.000	1150.000
01056	MANG	0.800	0.200
00410	ALKA	460.000	465.000
00720	CYAN	0.0	0.0
01020	BORO	0.200	0.100
01005	BARI	0.0	0.0
01075	SILV	0.0	0.0
01065	NICK	0.0	0.0
01130	LITH	-0.100	0.0
00681	DOC	0.0	6.000
00613	NITR	0.040	0.200
71870	BROM	-0.100	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S19 PAGE 3 4

SAMPLES		1	2
00340	C.O.	9.900	0.0
32730	PHEN	0.0	0.0
00625	KJEL	2.700	16.000
01010	BERY	0.0	0.0
01060	MOLY	-0.100	0.0
01080	STRO	2.800	0.0
01085	VANA	0.0	0.0
00660	ORTH	-0.100	0.100
00608	AMMO	0.200	0.0
00681	DIS-	0.0	0.0
38260	MBAS	0.0	0.0
31501	TOT	0.0	0.0
31615	FEC	0.0	0.0
00310	5-DA	0.0	0.0
SPECTROGRAPHIC			
01006	ALUM	0.500	0.0
01095	ANTI	0.0	0.0
01000	ARSE	0.0	0.0
01005	BARI	0.0	0.0
01010	BERY	0.0	0.0
01015	BISM	0.0	0.0
01020	BORO	0.500	0.0

01025	CADM	0.0	0.0
00915	CALC	99999.000	0.0
	CERI	0.0	0.0
	CESI	0.0	0.0
01030	CHRO	0.0	0.0
01035	COBO	0.0	0.0
	COLU	0.0	0.0
01040	COPP	0.010	0.0
	DYSP	0.0	0.0
	ERBI	0.0	0.0
	EURO	0.0	0.0
	GADO	0.0	0.0
01120	GALL	0.0	0.0
01125	GERM	0.0	0.0
	GOLD	0.0	0.0
	HAFN	0.0	0.0
	HOLM	0.0	0.0
	INDI	0.0	0.0
	IRID	0.0	0.0
01046	IRON	0.200	0.0
	LANT	0.0	0.0
01049	LEAD	0.001	0.0
01130	LITH	0.0	0.0
	LUTE	0.0	0.0
00925	MAGN	99999.000	0.0
01056	MANG	0.200	0.200
71890	MERC	0.0	0.0
01060	MOLY	0.010	0.0
	NEOD	0.0	0.0
01065	NICK	0.0	0.0
	OSMI	0.0	0.0
	PALL	0.0	0.0

SAMPLES 1 2

	PLAT	0.0	0.0
00935	POTA	0.010	0.0
	PRAS	0.0	0.0
09503	RADI	0.0	0.0
	RHEN	0.0	0.0
	RHOD	0.0	0.0
01135	RUBI	0.0	0.0
	RUTH	0.0	0.0
	SAMA	0.0	0.0
	SCAN	0.0	0.0
01145	SELE	0.0	0.0
00955	SILI	5.000	0.0
01075	SILV	0.010	0.0
00930	SODI	10.000	0.0
01080	STRO	0.100	0.0
	TANT	0.0	0.0
	TERB	0.0	0.0
	THAL	0.0	0.0
	THOR	0.0	0.0
	THUL	0.0	0.0
01100	TIN	0.0	0.0
01150	TITA	0.010	0.0
	TUNG	0.0	0.0
22703	URAN	0.0	0.0
01085	VANA	0.0	0.0
	YTTE	0.0	0.0

	YTTR	0.0	0.0		
01090	ZINC	0.0	0.0		
01160	ZIRC	0.0	0.0		

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES		1	2	3	4
DATE		20177	41977	50977	101377
DEPTH		0.0	64.19	72.50	0.0
TEMP		0.0	8.9	10.7	0.0
LAB ID					
LAB NUM		0	0	0	0
METHOD		03	3	3	3
AQUIF.LOC.		A	A	A	A
WET					
01106	ALUM	0.100	0.0	0.0	-0.100
71846	AMMO	0.0	-0.100	0.600	0.100
01000	ARSE	0.0	0.0	0.0	-0.010
00440	BICA	670.000	675.000	690.000	690.000
01025	CADM	-0.010	0.0	0.0	-0.010
00915	CALC	85.000	36.000	59.000	90.000
00445	CARB	-0.100	-0.100	-0.100	-0.100
00940	CHLO	15.000	15.000	19.000	20.000
01030	CHRO	-0.010	0.0	0.0	-0.010
01040	COPP	-0.100	0.0	0.0	0.0
00950	FLUO	0.400	0.300	0.400	0.200
71830	HYDR	0.0	0.0	0.0	0.0
01046	IRON	-0.050	-0.050	-0.050	-0.050
01049	LEAD	0.080	0.0	0.0	0.060
00925	MAGN	130.000	160.000	145.000	120.000
71890	MERC	-0.001	0.0	0.0	-0.001
71851	NITR	2.900	2.500	2.200	1.700
70507	PHOS	0.100	0.400	-0.100	0.100
00935	POTA	3.300	2.700	4.000	2.000
01145	SELE	-0.010	0.0	0.0	-0.010
00955	SIL	27.000	22.000	21.000	9.900
00930	SODI	205.000	210.000	220.000	250.000
00945	SULF	580.000	550.000	600.000	645.000
00746	SULF	-0.100	0.0	0.0	-1.000
01090	ZINC	0.100	0.0	0.0	0.300
01503	GROS	0.0	0.0	0.0	5.300
03501	GROS	0.0	0.0	0.0	0.0
00900	HARD	760.000	750.000	740.000	0.0
00400	PH	0.0	6.700	6.400	8.100
00095	COND	0.0	1085.000	1180.000	0.0
00540	DIS	1450.000	1400.000	1280.000	1370.000
01056	MANG	-0.050	-0.050	-0.050	0.0
00410	ALKA	550.000	555.000	565.000	565.000
00720	CYAN	-0.010	0.0	0.0	-0.010
01020	BORO	0.200	0.300	0.200	-0.100
01005	BARI	0.0	0.0	0.0	0.0
01075	SILV	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0	0.0
01130	LITH	-0.100	0.0	0.0	0.0
00681	DOC	6.300	6.000	10.000	8.000
00613	NITR	0.030	0.040	-0.010	-0.010
71870	BROM	-0.100	0.0	0.0	0.0

SAMPLES		1	2	3	4
00340	C.O.	5.000	0.0	0.0	15.000
32730	PHEN	-0.001	0.0	0.0	-0.001
00625	KJEL	0.700	-0.100	0.700	0.0
01010	BERY	0.0	0.0	0.0	-0.100
01060	MOLY	-0.100	0.0	0.0	0.0
01080	STRO	3.600	0.0	0.0	-0.100
01085	VANA	-0.100	0.0	0.0	0.0
00660	ORTH	0.400	0.100	-0.100	0.0
00608	AMMO	0.0	0.0	0.0	0.0
00681	DIS-	0.0	0.0	0.0	0.0
38260	MBAS	0.0	0.0	0.0	0.0
31501	TOT	0.0	0.0	0.0	0.0
31615	FEC	0.0	0.0	0.0	0.0
00310	5-DA	0.0	0.0	0.0	0.0
SPECTROGRAPHIC					
01006	ALUM	0.001	0.0	0.0	0.0
01095	ANTI	0.0	0.0	0.0	0.0
01000	ARSE	0.0	0.0	0.0	0.0
01005	BARI	0.0	0.0	0.0	0.0
01010	BERY	0.0	0.0	0.0	0.0
01015	BISM	0.0	0.0	0.0	0.0
01020	BORO	0.500	0.0	0.0	0.0
01025	CADM	0.0	0.0	0.0	0.0
00915	CALC	99999.000	0.0	0.0	0.0
	CERI	0.0	0.0	0.0	0.0
	CESI	0.0	0.0	0.0	0.0
01030	CHRO	0.0	0.0	0.0	0.0
01035	COBO	0.0	0.0	0.0	0.0
	COLU	0.0	0.0	0.0	0.0
01040	COPP	0.001	0.0	0.0	0.001
	DYSP	0.0	0.0	0.0	0.0
	ERBI	0.0	0.0	0.0	0.0
	EURO	0.0	0.0	0.0	0.0
	GADO	0.0	0.0	0.0	0.0
01120	GALL	0.0	0.0	0.0	0.0
01125	GERM	0.0	0.0	0.0	0.0
	GOLD	0.0	0.0	0.0	0.0
	HAFN	0.0	0.0	0.0	0.0
	HOLM	0.0	0.0	0.0	0.0
	INDI	0.0	0.0	0.0	0.0
	IRID	0.0	0.0	0.0	0.0
01046	IRON	0.001	0.0	0.0	0.0
	LANT	0.0	0.0	0.0	0.0
01049	LEAD	0.005	0.0	0.0	0.0
01130	LITH	0.0	0.0	0.0	0.001
	LUTE	0.0	0.0	0.0	0.0
00925	MAGN	99999.000	0.0	0.0	0.0
01056	MANG	0.0	-0.050	-0.050	0.0
71890	MERC	0.0	0.0	0.0	0.0
01060	MOLY	0.010	0.0	0.0	0.010
	NEOD	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0	0.0
	OSMI	0.0	0.0	0.0	0.0
	PALL	0.0	0.0	0.0	0.0

SAMPLES 1 2 3 4

	PLAT	0.0	0.0	0.0	0.0

00935	POTA	0.010	0.0	0.0	0.0
	PRAS	0.0	0.0	0.0	0.0
09503	RADI	0.0	0.0	0.0	0.0
	RHEN	0.0	0.0	0.0	0.0
	RHOD	0.0	0.0	0.0	0.0
01135	RUBI	0.0	0.0	0.0	0.0
	RUTH	0.0	0.0	0.0	0.0
	SAMA	0.0	0.0	0.0	0.0
	SCAN	0.0	0.0	0.0	0.0
01145	SELE	0.0	0.0	0.0	0.0
00955	SILI	2.000	0.0	0.0	0.0
01075	SILV	0.0	0.0	0.0	0.0
00930	SODI	5.000	0.0	0.0	0.0
01080	STRO	0.100	0.0	0.0	0.0
	TANT	0.0	0.0	0.0	0.0
	TERB	0.0	0.0	0.0	0.0
	THAL	0.0	0.0	0.0	0.0
	THOR	0.0	0.0	0.0	0.0
	THUL	0.0	0.0	0.0	0.0
01100	TIN	0.0	0.0	0.0	0.0
01150	TITA	0.0	0.0	0.0	0.0
	TUNG	0.0	0.0	0.0	0.0
22703	URAN	0.0	0.0	0.0	0.0
01085	VANA	0.0	0.0	0.0	0.0
	YTTE	0.0	0.0	0.0	0.0
	YTTR	0.0	0.0	0.0	0.0
01090	ZINC	0.0	0.0	0.0	0.0
01160	ZIRC	0.0	0.0	0.0	0.0

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES		1	2	3	4
DATE		20177	41977	50977	101377
DEPTH		0.0	30.62	37.02	0.0
TEMP		0.0	7.9	11.2	0.0
LAB ID					
LAB NUM		0	0	0	0
METHOD		03	3	3	3
AQUIF.LOC.		A	A	A	A
WET					
01106	ALUM	0.200	0.0	0.0	-0.100
71846	AMMO	0.0	-0.100	-0.200	0.300
01000	ARSE	0.0	0.0	0.0	-0.010
00440	BICA	600.000	590.000	605.000	590.000
01025	CADM	-0.010	0.0	0.0	-0.010
00915	CALC	105.000	41.000	51.000	105.000
00445	CARB	-0.100	-0.100	-0.100	-0.100
00940	CHLO	12.000	18.000	12.000	16.000
01030	CHRO	-0.010	0.0	0.0	-0.010
01040	COPP	0.100	0.0	0.0	0.0
00950	FLUO	0.300	0.200	0.200	0.100
71830	HYDR	0.0	0.0	0.0	0.0
01046	IRON	-0.050	-0.050	-0.050	-0.050
01049	LEAD	0.080	0.0	0.0	0.030
00925	MAGN	115.000	160.000	140.000	91.000
71890	MERC	0.002	0.0	0.0	-0.001
71851	NITR	4.300	3.200	4.200	8.300
70507	PHOS	-0.100	0.400	0.0	0.100

00935	POTA	2.300	1.700	2.300	1.700
01145	SELE	-0.010	0.0	0.0	-0.010
00955	SIL	28.000	21.000	21.000	9.700
00930	SODI	190.000	155.000	210.000	280.000
00945	SULF	570.000	550.000	600.000	660.000
00746	SULF	1.600	0.0	0.0	-1.000
01090	ZINC	0.200	0.0	0.0	0.300
01503	GROS	0.0	0.0	0.0	3.000
03501	GROS	0.0	0.0	0.0	0.0
00900	HARD	730.000	750.000	700.000	0.0
00400	PH	0.0	6.300	6.000	8.100
00095	COND	0.0	1675.000	1900.000	0.0
00540	DIS	0.0	1310.000	1450.000	1380.000
01056	MANG	0.0	0.050	-0.050	0.0
00410	ALKA	490.000	485.000	495.000	485.000
00720	CYAN	-0.010	0.0	0.0	-0.010
01020	BORO	0.100	0.100	0.100	-0.100
01005	BARI	0.0	0.0	0.0	0.0
01075	SILV	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0	0.0
01130	LITH	-0.100	0.0	0.0	0.0
00681	DOC	9.500	6.000	11.000	6.000
00613	NITR	0.030	0.040	-0.010	-0.010
71870	BROM	-0.100	0.0	0.0	0.0

SAMPLES		1	2	3	4
00340	C.O.	5.000	0.0	0.0	15.000
32730	PHEN	-0.001	0.0	0.0	-0.001
00625	KJEL	2.000	-0.100	0.200	0.0
01010	BERY	0.0	0.0	0.0	0.100
01060	MOLY	-0.100	0.0	0.0	0.0
01080	STRO	2.600	0.0	0.0	-0.100
01085	VANA	0.0	0.0	0.0	0.0
00660	ORTH	-0.100	-0.100	-0.100	0.0
00608	AMMO	0.100	0.0	0.0	0.0
00681	DIS-	0.0	0.0	0.0	0.0
38260	MBAS	0.0	0.0	0.0	0.0
31501	TOT	0.0	0.0	0.0	0.0
31615	FEC	0.0	0.0	0.0	0.0
00310	5-DA	0.0	0.0	0.0	0.0
SPECTROGRAPHIC					
01006	ALUM	0.010	0.0	0.0	0.0
01095	ANTI	0.0	0.0	0.0	0.0
01000	ARSE	0.0	0.0	0.0	0.0
01005	BARI	0.0	0.0	0.0	0.0
01010	BERY	0.0	0.0	0.0	-0.100
01015	BISM	0.0	0.0	0.0	0.0
01020	BORO	0.500	0.0	0.0	0.0
01025	CADM	0.0	0.0	0.0	0.0
00915	CALC	99999.000	0.0	0.0	0.0
	CERI	0.0	0.0	0.0	0.0
	CESI	0.0	0.0	0.0	0.0
01030	CHRO	0.0	0.0	0.0	0.0
01035	COBO	0.0	0.0	0.0	0.0
	COLU	0.0	0.0	0.0	0.0
01040	COPP	0.001	0.0	0.0	0.001
	DYSP	0.0	0.0	0.0	0.0
	ERBI	0.0	0.0	0.0	0.0
	EURO	0.0	0.0	0.0	0.0

	GADO	0.0	0.0	0.0	0.0
01120	GALL	0.0	0.0	0.0	0.0
01125	GERM	0.0	0.0	0.0	0.0
	GOLD	0.0	0.0	0.0	0.0
	HAFN	0.0	0.0	0.0	0.0
	HOLM	0.0	0.0	0.0	0.0
	INDI	0.0	0.0	0.0	0.0
	IRID	0.0	0.0	0.0	0.0
01046	IRON	0.001	0.0	0.0	0.0
	LANT	0.0	0.0	0.0	0.0
01049	LEAD	0.010	0.0	0.0	0.0
01130	LITH	0.0	0.0	0.0	0.001
	LUTE	0.0	0.0	0.0	0.0
00925	MAGN	99999.000	0.0	0.0	0.0
01056	MANG	0.001	-0.050	-0.050	0.0
71890	MERC	0.0	0.0	0.0	0.0
01060	MOLY	0.010	0.0	0.0	0.010
	NEOD	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0	0.0
	OSMI	0.0	0.0	0.0	0.0
	PALL	0.0	0.0	0.0	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S23 PAGE # 10

SAMPLES		1	2	3	4
	PLAT	0.0	0.0	0.0	0.0
00935	POTA	0.0	0.0	0.0	0.0
	PRAS	0.0	0.0	0.0	0.0
09503	RADI	0.0	0.0	0.0	0.0
	RHEN	0.0	0.0	0.0	0.0
	RHOD	0.0	0.0	0.0	0.0
01135	RUBI	0.0	0.0	0.0	0.0
	RUTH	0.0	0.0	0.0	0.0
	SAMA	0.0	0.0	0.0	0.0
	SCAN	0.0	0.0	0.0	0.0
01145	SELE	0.0	0.0	0.0	0.0
00955	SILI	2.000	0.0	0.0	0.0
01075	SILV	0.0	0.0	0.0	0.0
00930	SODI	10.000	0.0	0.0	0.0
01080	STRO	0.100	0.0	0.0	0.100
	TANT	0.0	0.0	0.0	0.0
	TERB	0.0	0.0	0.0	0.0
	THAL	0.0	0.0	0.0	0.0
	THOR	0.0	0.0	0.0	0.0
	THUL	0.0	0.0	0.0	0.0
01100	TIN	0.0	0.0	0.0	0.0
01150	TITA	0.0	0.0	0.0	0.0
	TUNG	0.0	0.0	0.0	0.0
22703	URAN	0.0	0.0	0.0	0.0
01085	VANA	0.0	0.0	0.0	0.0
	YTTE	0.0	0.0	0.0	0.0
	YTTR	0.0	0.0	0.0	0.0
01090	ZINC	0.0	0.0	0.0	0.0
01160	ZIRC	0.0	0.0	0.0	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S24 PAGE #2

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8
DATE	20177	41977	50977	101377	31378	40778	61778	92178
DEPTH	0.0	6.78	9.82	0.0	12.21	11.84	5.69	0.0

TEMP	0.0	6.0	10.8	0.0	6.5	0.0	9.0	0.0
LAB ID								
LAB NUM	0	0	0	0	0	0	0	0
METHOD	03	3	3	3	3	3	3	03
AQUIF.LOC.	A	A	A	A	A	A	A	A
WET								
01106 ALUM	-0.100	0.0	0.0	-0.100	0.0	0.0	-0.100	0.0
71846 AMMO	0.0	-0.100	0.100	0.550	0.0	0.0	2.500	0.0
01000 ARSE	0.0	0.0	0.0	-0.010	0.0	0.0	-0.010	0.0
00440 BICA	605.000	580.000	615.000	610.000	425.000	580.000	600.000	560.000
01025 CADM	-0.010	0.0	0.0	-0.010	0.0	0.0	-0.010	0.0
00915 CALC	110.000	42.000	77.000	98.000	84.000	62.000	88.000	98.000
00445 CARB	-0.100	-0.100	-0.100	-0.100	42.000	-0.100	-0.100	-0.100
00940 CHLO	16.000	18.000	18.000	13.000	22.000	22.000	14.000	17.000
01030 CHRO	-0.010	0.0	0.0	-0.010	0.0	0.0	-0.010	0.0
01040 COPP	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00950 FLUO	0.200	0.200	0.200	0.200	0.400	0.400	0.100	0.200
71830 HYDR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01046 IRON	-0.050	-0.050	-0.050	-0.050	0.0	0.0	-0.050	0.0
01049 LEAD	0.040	0.0	0.0	0.010	0.0	0.0	-0.010	0.0
00925 MAGN	83.000	130.000	115.000	73.000	98.000	120.000	100.000	110.000
71890 MERC	-0.001	0.0	0.0	-0.001	0.0	0.0	-0.001	0.0
71851 NITR	12.500	8.200	13.400	3.300	7.200	5.300	6.800	5.700
70507 PHOS	-0.100	0.300	0.0	0.200	-0.100	0.0	0.100	0.0
00935 POTA	3.000	1.300	2.800	2.300	2.700	2.000	2.300	2.700
01145 SELE	-0.010	0.0	0.0	-0.010	0.0	0.0	-0.010	0.0
00955 SIL	25.000	21.000	20.000	9.200	0.0	9.300	9.800	19.500
00930 SODI	200.000	170.000	180.000	230.000	145.000	205.000	280.000	165.000
00945 SULF	480.000	450.000	490.000	490.000	560.000	530.000	500.000	520.000
00746 SULF	1.600	0.0	0.0	-1.000	0.0	0.0	-0.200	0.0
01090 ZINC	-0.100	0.0	0.0	0.100	0.0	0.0	0.100	0.0
01503 GROS	0.0	0.0	0.0	4.200	0.0	0.0	5.800	0.0
03501 GROS	0.0	0.0	0.0	0.0	0.0	0.0	28.000	0.0
00900 HARD	620.000	645.000	656.000	0.0	0.0	0.0	0.0	0.0
00400 PH	0.0	6.400	6.000	8.100	6.800	0.0	8.000	7.900
00095 COND	0.0	1650.000	1740.000	0.0	0.0	0.0	1700.000	1520.000
00540 DIS	1280.000	1280.000	1270.000	1180.000	1000.000	0.0	1160.000	0.0
01056 MANG	-0.050	-0.050	-0.050	0.0	0.0	0.0	0.0	0.0
00410 ALKA	495.000	475.000	505.000	500.000	0.0	475.000	495.000	460.000
00720 CYAN	-0.010	0.0	0.0	-0.010	0.0	0.0	-0.010	0.0
01020 BORO	0.900	0.100	0.100	-0.100	0.0	0.0	-0.100	0.0
01005 BARI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01075 SILV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01065 NICK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01130 LITH	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00681 DOC	6.500	8.000	12.000	8.000	0.0	11.700	7.000	0.0
00613 NITR	0.100	0.040	0.200	0.020	0.0	-0.010	-0.010	-0.010
71870 BROM	-0.100	0.0	0.0	0.0	0.0	0.0	-0.100	0.0

SAMPLES	1	2	3	4	5	6	7	8
00340 C.O.	6.900	0.0	0.0	30.000	0.0	0.0	48.000	0.0
32730 PHEN	-0.001	0.0	0.0	0.020	0.0	0.0	0.0	-0.001
00625 KJEL	4.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0
01010 BERY	0.0	0.0	0.0	-0.100	0.0	0.0	0.0	0.0
01060 MOLY	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01080 STRO	2.900	0.0	0.0	-0.100	0.0	0.0	2.000	0.0
01085 VANA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00660 ORTH	-0.100	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0
00608 AMMO	0.200	-0.100	0.100	0.0	0.0	0.0	0.0	0.0

00681	DIS-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38260	MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31501	TOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31615	FEC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00310	5-DA	0.0	0.0	-0.100	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC									
01006	ALUM	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01095	ANTI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01000	ARSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01005	BARI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01010	BERY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01015	BISM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01020	BORO	0.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01025	CADM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00915	CALC	99999.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CERI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CESI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01030	CHRO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01035	COBO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	COLU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01040	COPP	0.001	0.0	0.0	0.001	0.0	0.0	0.001	0.0
	DYSP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ERBI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EURO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	GADO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01120	GALL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01125	GERM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	HAFN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	HOLM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	INDI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	IRID	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01046	IRON	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	LANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01049	LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01130	LITH	0.0	0.0	0.0	0.001	0.0	0.0	0.001	0.0
	LUTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00925	MAGN	99999.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01056	MANG	0.0	-0.050	-0.050	0.0	0.0	0.0	0.0	0.0
71890	MERC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01060	MOLY	0.010	0.0	0.0	0.001	0.0	0.0	0.001	0.0
	NEOD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01065	NICK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	OSMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PALL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES		1	2	3	4	5	6	7	8
	PLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00935	POTA	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PRAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09503	RADI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	RHEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	RHOD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01135	RUBI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	RUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	SAMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	SCAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01145	SELE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00955	SILI	2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

01075	SILV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
00930	SODI	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01080	STRO	0.100	0.0	0.0	0.010	0.0	0.0	0.0	0.0
	TANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TERB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	THAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	THOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	THUL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01100	TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01150	TITA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TUNG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22703	URAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01085	VANA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	YTTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	YTTR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01090	ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01160	ZIRC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES		1
DATE		61378
DEPTH		23.40
TEMP		12.5
LAB ID		
LAB NUM		0
METHOD		3
AQUIF.LOC.		A
WET		
01106	ALUM	0.100
71846	AMMO	0.800
01000	ARSE	-0.010
00440	BICA	160.000
01025	CADM	-0.010
00915	CALC	28.000
00445	CARB	84.000
00940	CHLO	17.000
01030	CHRO	-0.010
01040	COPP	0.0
00950	FLUO	1.000
71830	HYDR	0.0
01046	IRON	-0.050
01049	LEAD	-0.010
00925	MAGN	30.000
71890	MERC	0.017
71851	NITR	4.900
70507	PHOS	0.100
00935	POTA	4.500
01145	SELE	-0.010
00955	SIL	16.000
00930	SODI	500.000
00945	SULF	945.000
00746	SULF	-0.200
01090	ZINC	0.100
01503	GROS	9.300
03501	GROS	3.000
00900	HARD	0.0
00400	PH	8.000
00095	COND	2450.000
00540	DIS	1620.000
01056	MANG	0.0
00410	ALKA	185.000
00720	CYAN	-0.010
01020	BORO	-0.100
01005	BARI	0.0
01075	SILV	0.0
01065	NICK	0.0
01130	LITH	0.0
00681	DOC	7.000

00613	NITR	-0.010
71870	BROM	-0.100
SAMPLES		1
00340	C.O.	38.000
32730	PHEN	0.0
00625	KJEL	0.0
01010	BERY	0.0
01060	MOLY	0.0
01080	STRO	0.500
01085	VANA	0.0
00660	ORTH	0.0
00608	AMMO	0.0
00681	DIS-	0.0
38260	MBAS	0.0
31501	TOT	0.0
31615	FEC	0.0
00310	5-DA	0.0
SPECTROGRAPHIC		
01006	ALUM	0.0
01095	ANTI	0.0
01000	ARSE	0.0
01005	BARI	0.0
01010	BERY	0.0
01015	BISM	0.0
01020	BORO	0.0
01025	CADM	0.0
00915	CALC	0.0
	CERI	0.0
	CESI	0.0
01030	CHRO	0.0
01035	COBO	0.0
	COLU	0.0
01040	COPP	0.001
	DYSP	0.0
	ERBI	0.0
	EURO	0.0
	GADO	0.0
01120	GALL	0.0
01125	GERM	0.0
	GOLD	0.0
	HAFN	0.0
	HOLM	0.0
	INDI	0.0
	IRID	0.0
01046	IRON	0.0
	LANT	0.0
01049	LEAD	0.0
01130	LITH	0.001
	LUTE	0.0
00925	MAGN	0.0
01056	MANG	0.0
71890	MERC	0.0
01060	MOLY	0.050
	NEOD	0.0
01065	NICK	0.0
	OSMI	0.0
	PALL	0.0

SAMPLES		1
	PLAT	0.0
00935	POTA	0.0
	PRAS	0.0
09503	RADI	0.0
	RHEN	0.0
	RHOD	0.0
01135	RUBI	0.0
	RUTH	0.0
	SAMA	0.0
	SCAN	0.0
01145	SELE	0.0
00955	SILI	0.0
01075	SILV	0.0
00930	SODI	0.0
01080	STRO	0.0
	TANT	0.0
	TERB	0.0
	THAL	0.0
	THOR	0.0
	THUL	0.0
01100	TIN	0.0
01150	TITA	0.0
	TUNG	0.0
22703	URAN	0.0
01085	VANA	0.0
	YTTE	0.0
	YTTR	0.0
01090	ZINC	0.0
01160	ZIRC	0.0

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES		1
DATE		52678
DEPTH		20.14
TEMP		10.0
LAB ID		
LAB NUM		0
METHOD		3
AQUIF.LOC.		A
WET		
01106	ALUM	0.400
71846	AMMO	0.0
01000	ARSE	-0.010
00440	BICA	695.000
01025	CADM	-0.010
00915	CALC	70.000
00445	CARB	-0.100
00940	CHLO	18.000
01030	CHRO	0.010
01040	COPP	0.0
00950	FLUO	0.500
71830	HYDR	0.0
01046	IRON	-0.050
01049	LEAD	-0.010
00925	MAGN	125.000

71890	MERC	0.006
71851	NITR	-0.100
70507	PHOS	-0.100
00935	POTA	3.300
01145	SELE	-0.010
00955	SIL	13.000
00930	SODI	245.000
00945	SULF	580.000
00746	SULF	0.0
01090	ZINC	-0.100
01503	GROS	2.400
03501	GROS	0.0
00900	HARD	0.0
00400	PH	7.700
00095	COND	1950.000
00540	DIS	1390.000
01056	MANG	0.380
00410	ALKA	570.000
00720	CYAN	0.0
01020	BORO	0.300
01005	BARI	0.0
01075	SILV	0.0
01065	NICK	0.030
01130	LITH	0.0
00681	DOC	6.300
00613	NITR	-0.010
71870	BROM	-0.100

SAMPLES		1
00340	C.O.	390.000
32730	PHEN	0.0
00625	KJEL	0.0
01010	BERY	0.0
01060	MOLY	0.0
01080	STRO	2.800
01085	VANA	0.0
00660	ORTH	0.0
00608	AMMO	0.0
00681	DIS-	0.0
38260	MBAS	0.0
31501	TOT	0.0
31615	FEC	0.0
00310	5-DA	0.0

SPECTROGRAPHIC

01006	ALUM	0.0
01095	ANTI	0.0
01000	ARSE	0.0
01005	BARI	0.0
01010	BERY	0.0
01015	BISM	0.0
01020	BORO	0.0
01025	CADM	0.0
00915	CALC	0.0
	CERI	0.0
	CESI	0.0
01030	CHRO	0.0
01035	COBO	0.0
	COLU	0.0
01040	COPP	0.0

	DYSP	0.0
	ERBI	0.0
	EURO	0.0
	GADO	0.0
01120	GALL	0.0
01125	GERM	0.0
	GOLD	0.0
	HAFN	0.0
	HOLM	0.0
	INDI	0.0
	IRID	0.0
01046	IRON	0.0
	LANT	0.0
01049	LEAD	0.0
01130	LITH	0.0
	LUTE	0.0
00925	MAGN	0.0
01056	MANG	0.0
71890	MERC	0.0
01060	MOLY	0.0
	NEOD	0.0
01065	NICK	0.0
	OSMI	0.0
	PALL	0.0

SAMPLES 1

	PLAT	0.0
00935	POTA	0.0
	PRAS	0.0
09503	RADI	0.0
	RHEN	0.0
	RHOD	0.0
01135	RUBI	0.0
	RUTH	0.0
	SAMA	0.0
	SCAN	0.0
01145	SELE	0.0
00955	SILI	0.0
01075	SILV	0.0
00930	SODI	0.0
01080	STRO	0.0
	TANT	0.0
	TERB	0.0
	THAL	0.0
	THOR	0.0
	THUL	0.0
01100	TIN	0.0
01150	TITA	0.0
	TUNG	0.0
22703	URAN	0.0
01085	VANA	0.0
	YTTE	0.0
	YTTR	0.0
01090	ZINC	0.0
01160	ZIRC	0.0

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES 1

DATE		52678
DEPTH		21.37
TEMP		11.0
LAB ID		
LAB NUM		0
METHOD		3
AQUIF.LOC.		A
WET		
01106	ALUM	0.800
71846	AMMO	0.0
01000	ARSE	-0.010
00440	BICA	700.000
01025	CADM	-0.010
00915	CALC	69.000
00445	CARB	-0.100
00940	CHLO	20.000
01030	CHRO	0.010
01040	COPP	0.0
00950	FLUO	0.400
71830	HYDR	0.0
01046	IRON	-0.050
01049	LEAD	-0.010
00925	MAGN	140.000
71890	MERC	-0.001
71851	NITR	-0.100
70507	PHOS	0.200
00935	POTA	3.600
01145	SELE	-0.010
00955	SIL	11.000
00930	SODI	240.000
00945	SULF	610.000
00746	SULF	0.0
01090	ZINC	0.100
01503	GROS	7.000
03501	GROS	0.0
00900	HARD	0.0
00400	PH	7.700
00095	COND	1970.000
00540	DIS	1480.000
01056	MANG	0.280
00410	ALKA	575.000
00720	CYAN	0.0
01020	BORO	-0.100
01005	BARI	0.0
01075	SILV	0.0
01065	NICK	0.030
01130	LITH	0.0
00681	DOC	8.200
00613	NITR	-0.010
71870	BROM	-0.100

SAMPLES		1
00340	C.O.	355.000
32730	PHEN	0.0
00625	KJEL	0.0
01010	BERY	0.0
01060	MOLY	0.0
01080	STRO	2.700

01085	VANA	0.0
00660	ORTH	0.0
00608	AMMO	0.0
00681	DIS-	0.0
38260	MBAS	0.0
31501	TOT	0.0
31615	FEC	0.0
00310	5-DA	0.0
SPECTROGRAPHIC		
01006	ALUM	0.0
01095	ANTI	0.0
01000	ARSE	0.0
01005	BARI	0.0
01010	BERY	0.0
01015	BISM	0.0
01020	BORO	0.0
01025	CADM	0.0
00915	CALC	0.0
	CERI	0.0
	CESI	0.0
01030	CHRO	0.0
01035	COBO	0.0
	COLU	0.0
01040	COPP	0.0
	DYSP	0.0
	ERBI	0.0
	EURO	0.0
	GADO	0.0
01120	GALL	0.0
01125	GERM	0.0
	GOLD	0.0
	HAFN	0.0
	HOLM	0.0
	INDI	0.0
	IRID	0.0
01046	IRON	0.0
	LANT	0.0
01049	LEAD	0.0
01130	LITH	0.0
	LUTE	0.0
00925	MAGN	0.0
01056	MANG	0.0
71890	MERC	0.0
01060	MOLY	0.0
	NEOD	0.0
01065	NICK	0.0
	OSMI	0.0
	PALL	0.0

SAMPLES 1

	PLAT	0.0
00935	POTA	0.0
	PRAS	0.0
09503	RADI	0.0
	RHEN	0.0
	RHOD	0.0
01135	RUBI	0.0
	RUTH	0.0
	SAMA	0.0

	SCAN	0.0
01145	SELE	0.0
00955	SILI	0.0
01075	SILV	0.0
00930	SODI	0.0
01080	STRO	0.0
	TANT	0.0
	TERB	0.0
	THAL	0.0
	THOR	0.0
	THUL	0.0
01100	TIN	0.0
01150	TITA	0.0
	TUNG	0.0
22703	URAN	0.0
01085	VANA	0.0
	YTTE	0.0
	YTTR	0.0
01090	ZINC	0.0
01160	ZIRC	0.0

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S29D PAGE 21

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES		1
DATE		52678
DEPTH		25.61
TEMP		10.0
LAB ID		
LAB NUM		0
METHOD		3
AQUIF.LOC.		A
WET		
01106	ALUM	2.600
71846	AMMO	0.0
01000	ARSE	-0.010
00440	BICA	1100.000
01025	CADM	-0.010
00915	CALC	57.000
00445	CARB	-0.100
00940	CHLO	40.000
01030	CHRO	0.020
01040	COPP	0.0
00950	FLUO	0.700
71830	HYDR	0.0
01046	IRON	0.470
01049	LEAD	-0.010
00925	MAGN	260.000
71890	MERC	-0.001
71851	NITR	-0.100
70507	PHOS	0.200
00935	POTA	8.000
01145	SELE	-0.010
00955	SIL	15.000
00930	SODI	670.000
00945	SULF	1580.000
00746	SULF	0.0
01090	ZINC	0.100
01503	GROS	8.000

03501	GROS	0.0
00900	HARD	0.0
00400	PH	7.300
00095	COND	3820.000
00540	DIS	3140.000
01056	MANG	0.310
00410	ALKA	900.000
00720	CYAN	0.0
01020	BORO	0.900
01005	BARI	0.0
01075	SILV	0.0
01065	NICK	0.020
01130	LITH	0.0
00681	DOC	7.100
00613	NITR	-0.010
71870	BROM	-0.100

01/02/79 WATER QUALITY ANALYSIS RESULTS — CORE HOLE ID GS-S290 PAGE 22

SAMPLES 1

00340	C.O.	320.000
32730	PHEN	0.0
00625	KJEL	0.0
01010	BERY	0.0
01060	MOLY	0.0
01080	STRO	4.800
01085	VANA	0.0
00660	ORTH	0.0
00608	AMMO	0.0
00681	DIS-	0.0
39260	MBAS	0.0
31501	TOT	0.0
31615	FEC	0.0
00310	5-DA	0.0

SPECTROGRAPHIC

01006	ALUM	0.0
01095	ANTI	0.0
01000	ARSE	0.0
01005	BARI	0.0
01010	BERY	0.0
01015	BISM	0.0
01020	BORO	0.0
01025	CADM	0.0
00915	CALC	0.0
	CERI	0.0
	CESI	0.0
01030	CHRO	0.0
01035	COBO	0.0
	COLU	0.0
01040	COPP	0.0
	DYSP	0.0
	ERBI	0.0
	EURO	0.0
	GADO	0.0
01120	GALL	0.0
01125	GERM	0.0
	GOLD	0.0
	HAFN	0.0
	HOLM	0.0
	INDI	0.0
	IRID	0.0

01046	IRON	0.0
	LANT	0.0
01049	LEAD	0.0
01130	LITH	0.0
	LUTE	0.0
00925	MAGN	0.0
01056	MANG	0.0
71890	MERC	0.0
01060	MOLY	0.0
	NEOD	0.0
01065	NICK	0.0
	OSMI	0.0
	PALL	0.0

SAMPLES 1

	PLAT	0.0
00935	POTA	0.0
	PRAS	0.0
09503	RADI	0.0
	RHEN	0.0
	RHOD	0.0
01135	RUBI	0.0
	RUTH	0.0
	SAMA	0.0
	SCAN	0.0
01145	SELE	0.0
00955	SILI	0.0
01075	SILV	0.0
00930	SODI	0.0
01080	STRO	0.0
	TANT	0.0
	TERB	0.0
	THAL	0.0
	THOR	0.0
	THUL	0.0
01100	TIN	0.0
01150	TITA	0.0
	TUNG	0.0
22703	URAN	0.0
01085	VANA	0.0
	YTTE	0.0
	YTTR	0.0
01090	ZINC	0.0
01160	ZIRC	0.0

JOB#- 741-40.11 OWNER- LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0

DATE DRILL COMPL- 0 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES 1

DATE	52678
DEPTH	28.61
TEMP	10.0
LAB ID	
LAB NUM	0
METHOD	8
AQUIF.LOC.	A
WET	
01106 ALUM	1.500

71846	AMMO	0.0
01000	ARSE	-0.010
00440	BICA	795.000
01025	CADM	-0.010
00915	CALC	57.000
00445	CARB	-0.100
00940	CHLO	23.000
01030	CHRO	0.030
01040	COPP	0.0
00950	FLUO	0.400
71830	HYDR	0.0
01046	IRON	0.080
01049	LEAD	-0.010
00925	MAGN	175.000
71890	MERC	-0.001
71851	NITR	-0.100
70507	PHOS	0.100
00935	POTA	5.000
01145	SELE	-0.010
00955	SIL	17.000
00930	SODI	300.000
00945	SULF	770.000
00746	SULF	0.0
01090	ZINC	0.100
01503	GROS	13.000
03501	GROS	0.0
00900	HARD	0.0
00400	PH	7.300
00095	COND	2210.000
00540	DIS	1750.000
01056	MANG	0.490
00410	ALKA	650.000
00720	CYAN	0.0
01020	BORO	0.500
01005	BARI	0.0
01075	SILV	0.0
01065	NICK	0.030
01130	LITH	0.0
00681	DOC	4.200
00613	NITR	-0.010
71870	BROM	-0.100

01/02/79 WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID GS-S29AD

SAMPLES 1

00340	C.O.	285.000
32730	PHEN	0.0
00625	KJEL	0.0
01010	BERY	0.0
01060	MOLY	0.0
01080	STRO	3.400
01085	VANA	0.0
00660	ORTH	0.0
00608	AMMO	0.0
00681	DIS-	0.0
38260	MBAS	0.0
31501	TOT	0.0
31615	FEC	0.0
00310	5-DA	0.0

SPECTROGRAPHIC

01006	ALUM	0.0

01095	ANTI	0.0
01000	ARSE	0.0
01005	BARI	0.0
01010	BERY	0.0
01015	BISM	0.0
01020	BORO	0.0
01025	CADM	0.0
00915	CALC	0.0
	CERI	0.0
	CESI	0.0
01030	CHRO	0.0
01035	COBO	0.0
	COLU	0.0
01040	COPP	0.0
	DYSP	0.0
	ERBI	0.0
	EURO	0.0
	GADO	0.0
01120	GALL	0.0
01125	GERM	0.0
	GOLD	0.0
	HAFN	0.0
	HOLM	0.0
	INDI	0.0
	IRID	0.0
01046	IRON	0.0
	LANT	0.0
01049	LEAD	0.0
01130	LITH	0.0
	LUTE	0.0
00925	MAGN	0.0
01056	MANG	0.0
71890	MERC	0.0
01060	MOLY	0.0
	NEOD	0.0
01065	NICK	0.0
	OSMI	0.0
	PALL	0.0

	PLAT	0.0
00935	POTA	0.0
	PRAS	0.0
09503	RADI	0.0
	RHEN	0.0
	RHOD	0.0
01135	RUBI	0.0
	RUTH	0.0
	SAMA	0.0
	SCAN	0.0
01145	SELE	0.0
00955	SILI	0.0
01075	SILV	0.0
00930	SODI	0.0
01080	STRO	0.0
	TANT	0.0
	TERB	0.0
	THAL	0.0
	THOR	0.0
	THUL	0.0

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